Release Date Declaral 34

421 Humble #1 Navajo-88
SE SE 25-36N-29E Apache County

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OUNTY Apache FILL NAME Hus			. A	REA _Di	neh bi	Keya	h Fie	1d LEASE	NO. <u>Nav. 1</u> 4	<u>-20-0603-</u>	R812
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ELL NAME Hug	ble #1	<u>Navaj</u>	o=88	 ,				<u></u>			
OCATION SE SE		SEC 25	<u> </u>	TWP	36N R	ANGE	29E	FOOTAGE 66	50' FSL 660	TOTAL	
ELEV 8166 GR								STATUS 15-C		TOTVE	3850'
CONTRACTOR											
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Cutler		1951'									
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Ismay Desert Creek		3350¹									
Sill		3400						 	· · · · · · · · · · · · · · · · · · ·		
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BlackShale Sill		3734		 -							·
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Molas		3764 3798									
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IE, Borehole	Comp.		37:	34-54 of	11		34	48-63	SAMPLE	NO. 1445	*
Sonic-G _r			340	07 - 63 ga	as		34	07-48	CORE A	NALYSIS _	x
	- <u>-</u>						37	34-54	DSTs *Tuc:		
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to Kerr-McGe									-	ING REP.	
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WATER WELL ACC										====== ==	
BOND CO. Fi	remen's	s Ins.						BOND NO. DATE	-BND 188	98 10-52	8
BOND AMT. \$ 2	5 ,000		_ (CANCELLE	D 12/1	15:	7-	ORGANIZAT	ION REPORT	6-27-69	
FILING RECEIPT				LOC. PLA	T ×			WELL BOOK	x PL	AT BOOK _	х
API NO. 02-0			_								·
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PERMIT NUMBER

NO. FROM CORE RECORD RECOVERY REMARKS NO. FROM TO 601 3497 3437 1 60¹ 3557 2 3497 431 3600 3557 3 601 3660 4 3600 103 3786 5 3776 REMEDIAL HISTORY NEW PERFORATIONS WORK PERFORMED DATE STARTED - COMPLETED ADDITIONAL INFORMATION

DRILL STEM TEST

RESULTS

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IES &	Gamma	Ray S	onic_			,,					1 TC)-3-67		
							RECORD							.
Casing (re	aport all			conductor, sur									Amt. p	halle
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DETAIL OF FORMATIONS PENETRATED Description* Bottom Formation Top 1951 1215 Coconino 3054 1951 Cutler 3252 3054 Hermosa 3252 3350 Ismay 3400 3460 3578 Desert Creek 3350 : · 3400 Sill 3460 Base Sill Black Shale 3734 3578 3754 3764 3734 Sill 3754 Base Sill 3798 3764 Molas 3798 3850 TD Mississippian No DST's taken See attached summary for Core Descriptions.

INSTRUCTIONS:

Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion report and well log shall be filed with the State of Arizona Oil & Gas Conservation Commission not later than

> thirty days after project completion.

Form No. 4

[·] Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

141. 22**743.**

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-	プコ TRANSPC	ORT OIL OR GAS	FROM LEASE
deral. State or Indian Lease Number.	Field		Recryotr
lessor's name if fee lease 14-20-0603-8812	Din	eh-BI-Keyah	Hermosa
urvey or Sec-Twp-Rge	County		State
Sec 25, 26, 35, 36 T36N-R-	.gog Apa	che	AZ
Sec 25, 28, 33, 30 130N A	4		
Mountain States Peta	roleum Corp	·	
ADDRE	SS ALL CORRES	PONDENCE CONCE	rning this form to:
Street	City		State
P O Bx 1936	. Roswe	11,	New Mexico 88202
Above named operator authorizes (name of	transporter)		
Giant Industries Transporter's street address	City		State
	Scotts	dale,	A2
P O Bx 12999			• •
Field address P O Bx 256 (Bloomfield)	Hwy) Farmir	aton, N M 874	.99
P O BX 236 (BIOGHTTEIG	Oll. con	densate, gas well gas.	casinghead gas
	00% of the		oil from sald lease.
To transport 1	UPPER TRANS	PORTING FROM TH	IS LEASE ARE AS FOLLOWS:
	ALEMAN AMAN	% transported	Product transported
Name of gatherer			
		 	
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drilling and producing operations on this is	duced from the a	have described prope	Dil & Gas Conservation Commission have been complied with the above transporter is authorized to transport the above speci erty, and that this authorization will be valid until further no
percentage of the allowable on or gas pro- or until cancelled by the State of Arizona	Oil & Gas Conse	rvation Commission.	
Of Attiti cancenda of and and			
or unitin concensus of the			
	the penalty of pe	rjury, state that I am	the Secretary of
CERTIFICATE: I, the undersigned, under			the state of the report; and that
CERTIFICATE: I, the undersigned, under			the state of the report; and that
CERTIFICATE: I, the undersigned, under			the this report: and that
CERTIFICATE: I, the undersigned, under			the state of the report; and that
CERTIFICATE: I, the undersigned, under			the state of the report; and that
CERTIFICATE: I, the undersigned, under			the state of the report; and that
CERTIFICATE: I, the undersigned, under			am authorized by said company to make this report; and that therein are true, correct and complete to the best of my knowle
CERTIFICATE: I, the undersigned, under Mountain States Petro report was prepared under my supervision Aug. 11: 1995			the state of the report; and that
CERTIFICATE: I, the undersigned, under Mountain States Petro report was prepared under my supervision Date Aug. 11, 1995	and direction and		am authorized by said company to make this report; and that therein are true, correct and complete to the best of my knowle
CERTIFICATE: I, the undersigned, under Mountain States Petro report was prepared under my supervision Date Aug. 11, 1995 AUG 1 6 1995	and direction and		am authorized by said company to make this report; and that therein are true, correct and complete to the best of my knowle
CERTIFICATE: I, the undersigned, under Mountain States Petro report was prepared under my supervision Date Aug. 11, 1995 Date Aug. 11, 1995 Date approved: AUG 1 6 1995	and direction and		am authorized by said company to make this report; and that therein are true, correct and complete to the best of my knowle
CERTIFICATE: I, the undersigned, under Mountain States Petro report was prepared under my supervision Date Aug. 11, 1995 Date Aug. 11, 1995 Date Aug. 16 1995 STATE OF ARIZO	and direction and	company), and that I i that the facts stated	am authorized by said company to make this report; and that therein are true, correct and complete to the best of my knowled the said and
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CERTIFICATE: I, the undersigned, under Mountain States Petro report was prepared under my supervision Date Aug. 11, 1995 Date approved: AUG 1 6 1995 STATE OF ARIZO OIL & GAS CONSERVATION Stewn L. France L. France Aug. 1. France L. F	and direction and	company), and that I i that the facts stated	am authorized by said company to make this report; and that therein are true, correct and complete to the best of my knowled the said and the said a
CERTIFICATE: I, the undersigned, under Mountain States Petro report was prepared under my supervision Date Aug. 11, 1995 Date approved: STATE OF ARIZO OIL & GAS CONSERVATION By: Stewn L. K.	and direction and	company), and that I i that the facts stated	am authorized by said company to make this report; and that therein are true, correct and complete to the best of my knowled the said and
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Operator's Certificate of Compliance & Authorization to Transport Oil or Gas from Lease File Two Copies

Form No. 8

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FEB 1993

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14. I hereby certify that the foregoing is true and correct

(This space for Federal or State office use)

Approved by Conditions of approval, if any:

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals SUBMIT IN TRIPLICATE	
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals SUBMIT IN TRIPLICATE	6. If Indian, Allortee or Tribe Name Navajo 7. If Unit or CA, Agreement Designation P Y 2 8. Well Name and No. Navajo Tract 88 #1 9. API Well No. 02-001-20045 10. Field and Pool, or Exploratory Area Dineh-Bi-Keyah 11. County or Parish, State Apache Co., AZ RT, OR OTHER DATA
Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals SUBMIT IN TRIPLICATE	Navajo 7. If Unit or CA. Agreement Designation
Use "APPLICATION FOR PERMIT—" for such proposals	7. If Unit or CA, Agreement Designation
SUBMIT IN TRIPLICATE 1. Type of Well	8. Well Name and No. Navajo Tract 88 #1 9. API Well No. 02-001-20045 10. Field and Pool, or Exploratory Area Dineh-Bi-Keyah 11. County or Parish, State Apache Co., AZ RT, OR OTHER DATA
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Solution of Operator No.	Navajo Tract 88 #1 9. API Well No. 02-001-20045 10. Field and Pool, or Exploratory Area Dineh-Bi-Keyah 11. County or Parish, State Apache Co., AZ RT, OR OTHER DATA
2. Name of Operator Kerr-McGee Corporation 3. Address and Telephone No. U. S. Onshore Region, P. O. Box 25861, Oklahoma City, OK 73125 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 660° FSL & 660° FEL Sec. 25, T36N, R29E 12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OF TYPE OF SUBMISSION TYPE OF ACTION Abandonment Casing Repair Casing Re	9. API Well No. 02-001-20045 10. Field and Pool, or Exploratory Area Dineh-Bi-Keyah 11. County or Parish, State Apache Co., AZ RT, OR OTHER DATA
Kerr-McGee Corporation 9. API	9. API Well No. 02-001-20045 10. Field and Pool, or Exploratory Area Dineh-Bi-Keyah 11. County or Parish, State Apache Co., AZ RT, OR OTHER DATA
3. Address and Telephone No. U. S. Onshore Region, P. O. Box 25861, Oklahoma City, OK 73125 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 660' FSL & 660' FEL Sec. 25, T36N, R29E 12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OF TYPE OF SUBMISSION TYPE OF ACTION Abandonment	10. Field and Pool, or Exploratory Area Dineh-Bi-Keyah 11. County or Parish, State Apache Co., AZ RT, OR OTHER DATA
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 660' FSL & 660' FEL Sec. 25, T36N, R29E 12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OF TYPE OF SUBMISSION TYPE OF ACTION Abandonment	Dineh-Bi-Keyah 11. County or Parish, State Apache Co., AZ RT, OR OTHER DATA
660' FSL & 660' FEL Sec. 25, T36N, R29E 12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OF TYPE OF SUBMISSION TYPE OF ACTION Abandonment Continued Continued	Apache Co., AZ RT, OR OTHER DATA
Sec. 25, T36N, R29E 12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OF TYPE OF SUBMISSION TYPE OF ACTION Abandonment Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proper	Apache Co., AZ RT, OR OTHER DATA
12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OF TYPE OF SUBMISSION TYPE OF ACTION Abandonment Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any properties.	RT, OR OTHER DATA
TYPE OF SUBMISSION X Notice of Intent	
X Notice of Intent	
Recompletion Plugging Back Casing Repair Altering Casing Other TA (Note Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any property.)	Change of Plans
Recompletion Plugging Back Casing Repair Altering Casing Noter TA Noter Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proper	~~~ ~~
Casing Repair Casing Repair Altering Casing Altering Casing Noter TA Noter Comp 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any prop	New Construction
Final Abandonment Notice Altering Casing Other TA (Note Comp. 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any prop	Non-Routine Fracturing
(Note: TA (Note: Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any prop	Water Shut-Off
(Note Comp. 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any prop	Conversion to Injection
13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any prop	Dispose Water (Note: Report results of multiple completion on Wi Completion or Recompletion Report and Log form
give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*	
The temporary abandonment approval for the subject well expired 12-31-9	

APPROVED

By 210153

Tide

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

Mas Title

Regulatory Specialist

THE PERSON

STATISTICS.

deral, State or Indian Lease Number, lessor's name if fee lease		OF COMPLIANC		
lessor's name if fee lease	FTRANSPO	RT OIL OR GAS	FROM LEAS	SE ()
lessor's name it tee tease	Field			Releivoir
14-20-0603-8812 Navajo 88	Dineh-	Bi-Keyah		Hermosa
rvey or Sec-Twp-Rge	County	_		State
S 25 - T 36 N - R 30 F	Apache	<u> </u>		Arizone
peralor	- · ·			
Kerr-McGee Corporation				
ADDRESS		PONDENCE CONCE	RNING THIS I	
reet	City			State Texas, 79189
P. O. Box 250	Amaril	110		1 16,43, 73103
bove named operator authorizes (name of tra	insporter)			
Gary-Williams Energy	1 04-			State
ransporter's street address	Denve	n		Colorado, 80202
370 17th St., Suite 5300	Dellae			
ield address	NM 87413	-		
P. O. Box 159, Bloomfield,	Oil cond	ensate, gas well gas,	asinghead gas	
	On, com	Contract Contract Contract		
100	% of the	0i1		from said lease.
		PORTING FROM TH	S LEASE AR	E AS FOLLOWS:
	EREKS TRAKES	% transported	Product tr	
Yame of gatherer		%		•
			1	
			-	
The undersigned certifies that the rules and :	se, except as not ced from the al	bove described prope		servation Commission have been complied with porter is authorized to transport the above specifi- this authorization will be valid until further noti
drilling and producing operations on this less percentage of the zilowable oil or gas produ- or until cancelled by the State of Arizona Oil CERTIFICATE: I, the undersigned, under the		jury, state that I am		by said company to make this report; and that the correct and complete to the best of my knowled:
drilling and producing operations on this less percentage of the zilowable oil or gas produ- or until cancelled by the State of Arizona Oil CERTIFICATE: I, the undersigned, under the	end direction and	jury, state that I am oinpany), and that I that the facts stated		

Operator's Certificate of Compliance & Authorization to Transport Oil or Gas from Lease File Two Copies

Form No. 8

www.saa

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June 1990) DEPARTMEN	TED STATES IT OF THE INTERIOR LAND MANAGEMENT	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993 5. Lease Designation and Serial No.
Do not use this form for proposals to dr	AND REPORTS ON WELLS ill or to deepen or reentry to a different reservoir. R PERMIT—" for such proposals	14-20-0603-8812 6. If Indian, Allottee or Tribe Name Navajo
SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well Color Color Color		8. Well Name and No. Navajo Tract 88 #1 9. API Vieli No.
Kerr-McGee Corporation 3. Address and Telephone No. U.S. Onshore Region, P. O. Bo 4. Location of Well (Footage, Sec., T., R., M., or Survey I 660' FSL & 660' FEL Sec. 25, T36N, R29E	405/270-6023 ox 25861, Oklahoma City, OK 73125 Description)	02-001-20045 10. Field and Pool, or Exploratory Area Dineh-Bi-Keyah 11. County or Parish, State Apache Co., AZ
	(s) TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonment Recompletion	Change of Plans New Construction
Subsequent Report Final Abandonment Notice	Plugging Back Casing Repair Altering Casing Test Other Mechanical Integrity	Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on We

Regulatory Specialist

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

14. I hereby certify that the foregoing is true and correct

(This space for Federal or State office use)

Approved by Conditions of approval, if any:

Signed

G

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8-20-92

NAVAJO 88-1 DINEH-BI-KEYAH

8/7/92

Mechanical Integrity Test

(

MI crew, open well & ND wellhead. NU 8-5/8" spool w/single stage 3000# psi BOP. MI pump truck w/40 bbls of fresh water treated w/Tretolite Bactericide chemical, pumped 4 bbls of water & pressure up 7" casing to 620# psi. Close in valves on lines & pressure held for 30 min. Release pressure & RD pump truck. Release pump to next location. ND BOP & NU wellhead.

Note:

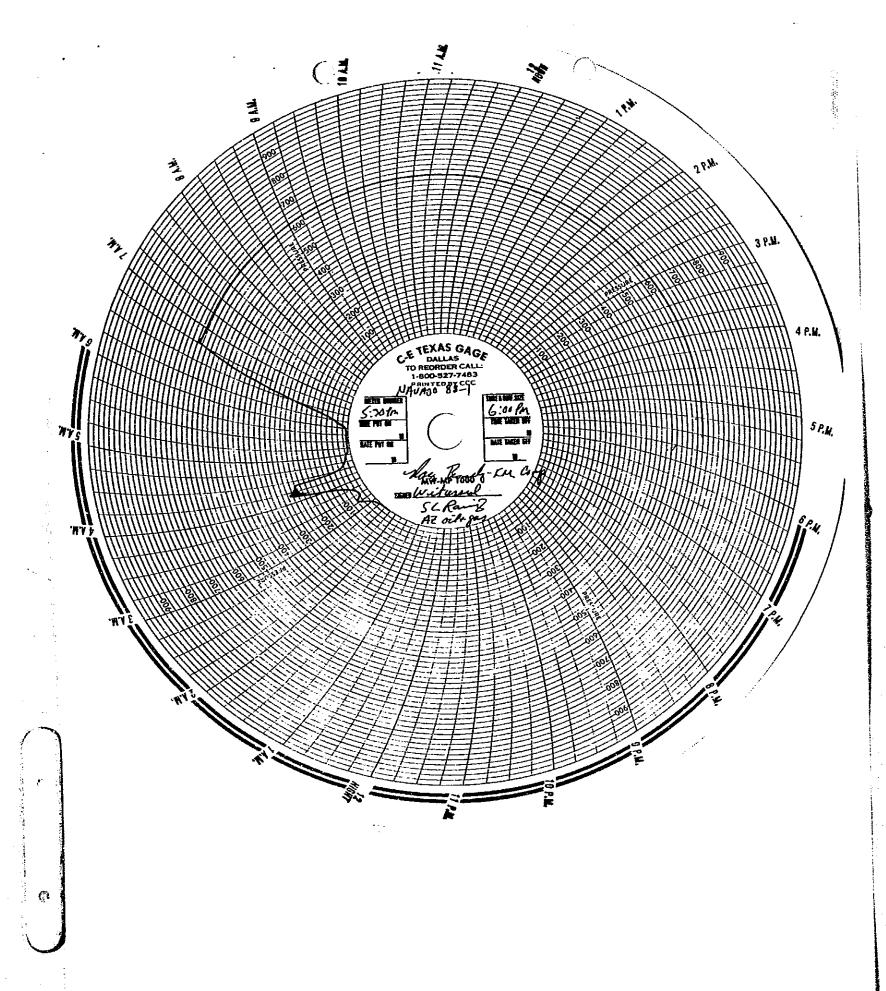
Notified BLM 8/4/92 of Mechanical Integrity Test. BLM did not witness.

Steve Rauzi w/Arizona Oil & Gas Comm. was present to witness pressure testing.

Chart recording attached.

SUPERVISOR: Ray Benally

117024.23/63.0



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421 FORM APPROVED Budget Bureau No. 1004-0135 UNITED STATES Form 3160-5 Expires: March 31, 1993 DEPARTMENT OF THE INTERIOR (June 1990) 5. Lease Designation and Serial No. BUREAU OF LAND MANAGEMENT 14-20-0603-8812 SUNDRY NOTICES AND REPORTS ON WELLS 6. If Indian, Allottee or Tribe Name Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Navajo Use "APPLICATION FOR PERMIT—" for such proposals 7. If Unit or CA, Agreement Designation SUBMIT IN TRIPLICATE 1. Type of Well 8. Well Name and No. X Oil Gas Othe Navajo Tract 88 # 2. Name of Operator Kerr-McGee Corporation 02-001-20045 405/270~6023 3. Address and Telephone No. 10. Field and Pool, or Exploratory Area U.S. Onshore Region, P. O. Box 25861, Oklahoma City, OK 73125 Dineh-Bi-Keyah 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 11. County or Parish, State 660' FSL & 660' FEL Sec. 25, T36N, R29E Apache Co., AZ CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 12. TYPE OF ACTION TYPE OF SUBMISSION __ Change of Plans Notice of Intent __ New Construction Non-Routine Fracturing Plugging Back Subsequent Report Water Shut-Off Casing Repair Conversion to Injection Altering Casing Final Abandonment Notice Dispose Water X other Renew TA status Do mechanical integrity test. (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)* The temporarily abandoned status for the subject well expired December 31, 1991. Kerr-McGee would like to extend this for one year to December 31, 1992. Current plans are to use the well in the proposed Dineh-Bi-Keyah Waterflood Project. The casing integrity of the well will be tested prior to July 1, 1992. It is being deferred due to the current adverse weather conditions. 14. I hereby certify that the foregoing is true and correct 2-28-9 <u>Analyst II</u> 6. Bunas Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

P/N 421

UNITED STATES

BURNIT IN TRIPLICATES

DEPARTMENT OF THE INTERIOR THE MESS HELD THE PROPERTY OF THE INTERIOR THE MESS HELD THE PROPERTY OF THE INTERIOR THE MESS HELD THE PROPERTY OF THE INTERIOR THE INTERI Budget Bureau No. 1004-0135 Form 3160-5 (November 1983) Expires August 31, 1985 (Formerly 9-331) 14-20-0603-8812 BUREAU & LAND MANAGEMENT SUNDRY NOTICES AND REPORTS ON WELLS tDo not use this form for preposals to drill or to despen or ping back.

"APPLICATION FOR PERMIT—" for each propose Navajo 88 JUL 28 AH 10: 53 STREET SAME D 2. FAME OF CPERATOR L PARM OR LEASE HAMB FARHINGTON RESOURCE AREA Navajo Tract 88 (Kerr-McGee Corporation 3. ABBLESS OF OFERATOR . W342, 20. U.S. Onshore Region, Box 25861, Oklahoma City, OK 73125
Location of wall (Report location dearly and in accordance with any State requirementa.)
Let glass aparts 17 below.)
At auriace 10. FISLE AFE FOOL, OR WILDCAT Dinch-Bi-Keyah 660' FSL & 660' FEL Sec. 25, T36N-R29E 12, COUNTY OR PARISE 12 STATE 14. PREMIT NO. 8166' GR 421 Check Appropriate Box To Indicate Nature of Notice, Report, or Other Date MOTICE OF INCOMPON TA: PULL OR ALTER CARING avare eschabb PRESIDE ARET TEST WATER BEIT-OFF MARLINES COMBINESE PRACTURD TROATMENT PRACTURE TRRAT SHOOT OF ACIDER CHAPS PLANS REPAIR WELL (Nora: Report results of multiple completion on Well Completion of Recompletion Report and Log form.) (Other) Temporarily Abandon 17. DESCRIER PROPOSED OR COUPLETED OFFERTIONS (Clearly mate all pertinent details, and give pertinent dates, including entimated date of starting any proposed work. If well is directlonally drilled, give substracts formitions and measured and area vertical depths for all markets and second pertinent to this work.) * This well is currently approved for final plug and abandonment. Kerr-McGee HAR Corporation requests that the proposed P&A be cancelled and the well put in a temporarily abandoned status. RAY BONDING Attached is a proposed procedure to TA the well. Also attached are before and after wellbore schematics. AUG 02 1989 THIS APPROVAL EXPIRES 18. I hereby wartifylehad the foregoing to true and envised Analyst G. Bunas TITLE (This space for Priesrel or State office man) APPROVED BY CONDITIONS OF APPROVAL, IF AME:

OPERATOR

*See Instructions on Revenu Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or at United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

MAREA MANAGER

SEEDEN SEED

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1-88 OLAVAN

TEMPORARY ABANDONMENT

2/N 42

RECOMMENDED PROCEDURE

- 1. Prepare road and location to move in equipment. Notify BLM and Arizona Conservation Commission of temporary abandonment operations.
- 2. Move in and rig up pulling unit. Nipple up and test BOP's.
- 3. Unseat packer at 3715' RKB and TOOH with tubing and packer.
- 4. Move in and rig up wireline unit.
- 5. Make gauge ring run to 3725' RKB.
- 6. Run and set CIBP at 3700° RKB.
- 7. Run and set CIBP at 3385' RKB.
- 8. Place 2 sx cement on CIBP using a dump bailer. WOC.
- 9. Pressure test casing and plug to 500 psi.

NOTE: Advise BLM of casing integrity test in a timely manner so they can have a witness on location if they desire.

- 10. RIH with tubing to ±3350' RRB. Circulate hole full of clean water treated with corrosion inhibitor.
- 11. TOOH and LD tubing.
- 12. ND BOP's, NU wellhead. Secure well.

Of A. 1/2488

TME004:11501 7/20/88

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NAVAJO 88-1 Sec. 25, T36N, R30E Apacha County, Arizona CURRENT SCHEMATIC ' PIN 421 8166'-GL 9' RKB-GL Elevation: 9 5/8" 32.3# E-40 csg set @ 603'. Cmt eirc to surface Tubing: 2 3/8" 4.7# J-55 1215 Coconino By hake-1951' 3407' 3407 Perfs Sqzd. 3448! 3448 Hermosa Intrusiva Sill 34631 Hermosa Intrusive Sill 7" 23, 26 & 27# N-80 csg set @ 3844' TD - 3850'

1 0.255 Mark |

O

A. Reyna 01/04/84

NAVAJO 88-1 - Sec. 25, T36N, R30E Apache County, Arizona PROPOSED SCHEMATIC Elevation: \$166'-GL 9' NG-GL 9 5/8" 32.3# H-40 esg set 8 603'. Cat circ to surface Tubing: 2 3/8" 4.7# J-55 1215" Cocomino 8% hole-1951' ZPARY ZIVER CIBP @ 3385' w/ / sax cament 34071 34071 34481

1 CELLES

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notes services.

PPLICATION TO PLUG AND ABANDON

ADDRESS

Dineh-Bi-Keyah

FIELD __

Permit No.

RECEIVED

APR 1 1 1988

eartwa cima

U.S. Onshore Region, Box 25861 Oklahoma City, Oklahoma 73125

OPERATOR Kerr-McGee Co	rporation	_ADDRESS	Oklahoma City,	Oklahoma	<u>a 73125 </u>
Federal, State or Indian Lease Numbe or Lessor's Name if Fee Lease Nava	jo Tract 88 (14	-20-0603-88	12) WELL	٧٥	1
LOCATION 660' FSL & 660	' FEL, Sec. 25,	T36N, R29E			
Apache County,	Arizona				
TYPE OF WELL Oil			TOTA	L DEPTH	3850 '
	(Oil, Gas or Dr	y Hole)			
ALLOWABLE (If Assigned)		<u>N/A</u>			Inch.
LAST PRODUCTION TEST	OIL1	(Bbls.)	WATER	3	(Bbis.)
	GAS				12/77
PRODUCING HORIZON	Hermosa	_ PRODUCING	FROM <u>3734</u>	то	3754
1. COMPLETE CASING RECORD.					
9-5/8" 32.3# H-40 cas	sing set from su	urface to 60	3'. Cemented wi	th 600 sx	s cement.
7" 23, 26 & 29# N-80 c with 150 sxs cement.	casing set from	surface to	3844' in an 8-3/	4" hole.	Cement
2. FULL DETAILS OF PROPOSED See attached plugging p		current well	schematic.		
DATE COMMENCING OPERATION			ADDRESS		
	Signat	ure .		Bunas	
	Title	Analyst II	re Region, Box 2	 5861	
		Oklahoma C	ity, Oklahoma 73		·
	Addre		000		
	Date	April 6, 1	700		
Date ApprovedSTATE OF // OIL & GAS CONSERVA	ATION COMMISSION		OIL & GAS CONSE	OF ARIZONA RVATION C to Plug and Aba Two Copies	OMMISSION

See attached Report on Proposed Operations.

4/82

STATE OF ARIZONA

OIL AND GAS CONSERVATION COMMISSION

PERMIT 421

REPORT ON PROPOSED OPERATIONS

Kerr-McGee Corporation U. S. Onshore Region							
P. O. Box 25861				Phoen	í x		RIZONA
Oklahoma City, OK 73125				April	11, 1988		
Your_supplemental proposal to_	abandon		wel	No. 1	Navajo-88		
A.P.J. No. 02-001-20045	Section	25	, T.36N	, R. <u>29E</u> _	, _G&SR	B. & M.,	
Dinch-Bi-Keyah	(ickl,			stea,			pool,
filed in this office. THE PROPOSAL IS APPROVED PRO	VIDED:		•		unined in c onj		· records
THE PROPOSAL IS APPROVED PRO 1. Adequate blowout prevent	ion equipment	is í	nstalled	and maint;			
THE PROPOSAL IS APPROVED PRO	ion equipment hout the aban	is í	nstalled	and maint;			
THE PROPOSAL IS APPROVED PRO 1. Adequate blowout prevent working condition throug	ion equipment hout the aban IED:	is ii	nstalled nt of the	and maint: well.			
THE PROPOSAL IS APPROVED PRO 1. Adequate blowout prevent working condition throug 2. THIS COMMISSION IS NOTIF	ion equipment hout the aban IED: ng of cement	is in donmen	nstalled nt of the 3385' - 3	and maint: well.			

BOND

D. J. BRENNAN, Executive Director

By R. a. - Glussa Enforcement, Director

A copy of this report and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 30 days after the work has been completed or the operations have been suspended.

By:

Permit No.

RECEIVED A (ICATION TO PLUG AND ABANDON ()

APR 1 1 1988

D & C COMS. COMM.

FIELDI	Dineh-Bi-Keyah		ILS. C	nshore Region	Box 25861
ODERATOR I	Kerr-McGee Corporation	AD[ORESS <u>Öklahö</u>	ma City, Okla	homa 73125
Federal, State or Ir	f Fee Lease Navajo Tract 88	(14-20-060)3-8812)	WELL NO]
	60' FSL & 660' FEL, Sec.				
A	pache County, Arizona			TOTAL DEPT	
TYPE OF WELL _	Oil (Oil, Gas	or Dry Hole)		IUIML D	тн <u>3850¹</u>
ALLOWABLE (If	Assigned)		N/A		
LAST PRODUCT			(Bbls.)		3 (Bbls.)
	GAS	-0-	(MCF)		r <u>12/77</u>
PRODUCING HO	ORIZON Hermosa	PROD	UCING FROM	37341	го3754
1. COMPLETE C	CASING RECORD.				
9-5/8" 32	2.3# H-40 casing set fro				
7" 23, 26 with 150	& 29# N-80 casing set f	rom surfac	æ to 3844' in	an 8-3/4" ho	le. Cement
Williano .	SAS CUICALL				
2. FULL DETA	ILS OF PROPOSED PLAN OF WOR	iK.			
See attac	ched plugging procedures a	and current	t well schema	tic.	
	•				
- ATE COMME	ENCING OPERATIONS	June, 198	38		
	rson doing work <u>Unknown</u>		— :	RESS	
MAINE OF C	ASON DOMO 1. T		1/1	•	-
		Signature). ()una	G. Buna	1S
		Analy	yst II		
		Title U.S.	Onshore Regio	on, Box 25861	,
		OK La Address	homa City, Ok	Landia 13143	
			1 6, 1988		
		Date	·	CTATE OF AL	2.70814
Date Appro			OIL &		TION COMMISSION
	STATE OF ARIZONA			Application to Plug	
OIL	& GAS CONSERVATION COMMIS	SION	1 1	File Two C	opies

Form No. 9

4/82

Suppression

S MANAGEMENT



RECEIVED

APR 1 1 1988

D & G CONS. COMM.

RECOXMEND PROCEDURE PEA NAVAJO 88-1

Proposed plug: (All depths RKB except where indicated)

3385' - 3330' CIRP, 10 sx inside 7" casing 2005' - 1160' 352 sx inside and outside 7" casing 655' - 550' 75 sx inside and outside 7" casing 25' - 5' GL 15 sx inside and outside 7" casing

- 1. Prepare road and location to move in equipment. Notify BLM and Arizona Conservation Commission of plugging operations.
- 2. HI and RU pulling unit. NU 3000# BOP.
- 3. Unseat packer and TOE with tubing and packer.
- 4. HI and RU wireline unit.
- 5. TIR with gauge ring and run to 3400'.
- 6. TIR with CIEP on wireline and set at 3385'.
- 7. Place 50' (10 sx) cement on top of CIEP with cump bailer.
- 8. TIH with 4" casing gum and perforate 4 holes at 2005'.
- 9. TIH with Halliburton EZ Drill SV Cement retainer on tubing. Set retainer at 1160'.
- 10. MI and Ku Halliburton.
- 11. Pressure test tubing to 1000 PSI to check tubing.
- 12. Fill hole and circulate 9.27 mud. Once stable circulation has been established, pump 350 sx cement. Sting out of retainer leaving 2 sx on top. Flush is approximately 3½ BBLS.
- 13. TOH with tubing.
- 14. TIH with 4" casing gum and perforate 4 holes at 655'. RD and MO wireline company.
- 15. Establish circulation down casing with mud, then pump 75 sr cement balance plug to place top of plug at 550' inside and outside casing. WOC.
- 16. TIH with tubing and tag plug. TOE.

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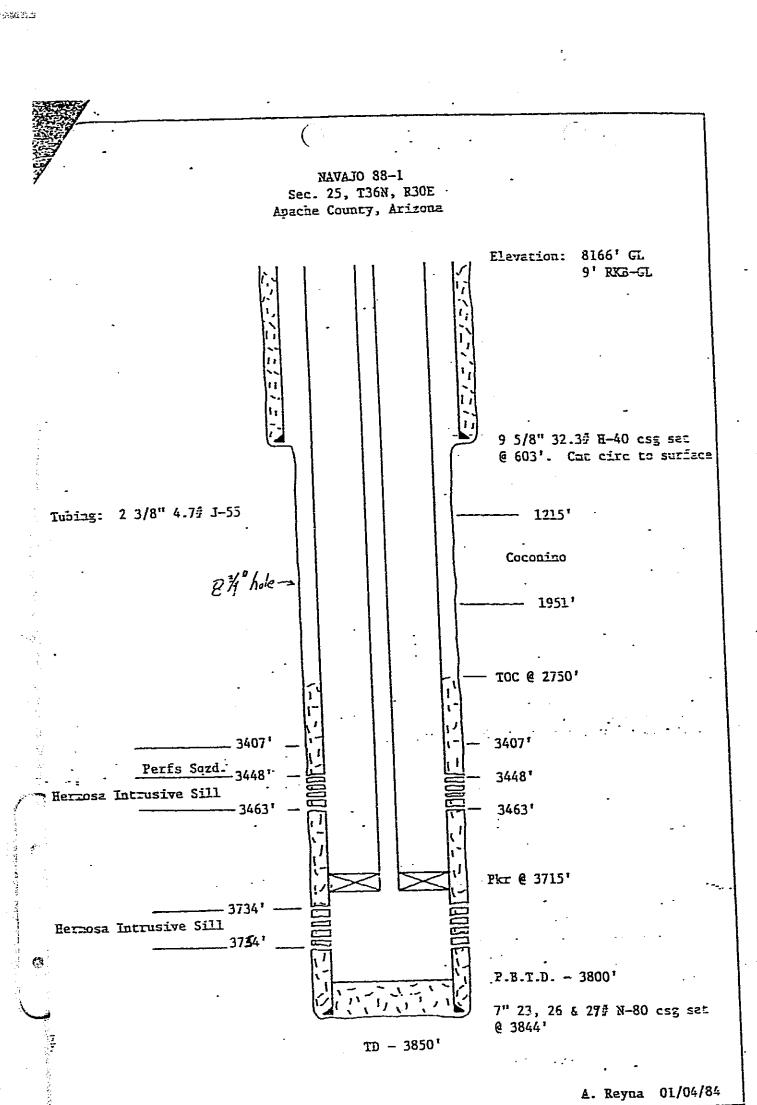
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TERESEN

PROCEDURE
NAVAJO 88-1
ge 2

- 17. Spot 15 sk surface plug 25' to 5' GL inside and outside 7" casing.
- 12. RD and MO Ealliburton and pulling unit.
- 19. Weld casing cap and place abandonment sign.
- 20. Clean, level, and reseed location.

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RECOMMEND PROCEDURE PEA NAVAJO 88-1

RECEIVED

APR 1 1 1988

O & G CONS. COMM.

Proposed plug: (211 depths RX3 except where indicated)

3385' - 3330' CIBP, 10 sx inside 7" casing 2005' - 1160' 352 sx inside and outside 7" casing 655' - 550' 75 sx inside and outside 7" casing 25' - 5' GL 15 sx inside and outside 7" casing

- 1. Prepare road and location to move in equipment. Notify BLM and Arizona Conservation Commission of plugging operations.
- 2. WI and RU pulling unit. NU 3000# BOP.
- 3. Unseat packer and TOH with tubing and packer.
- 4. MI and RU wireline unit.
- 5. TIH with gauge ring and run to 3400'.
- 6. TIH with CIBP on wireline and set at 3385'.
- 7. Place 50' (10 sx) cement on top of CIEP with dump bailer.
- 8. TIH with 4" casing gun and perforate 4 holes at 2605'.
- 9. TIH with Halliburton EZ Drill SV Cement retainer on tubing. Set retainer at 1160'.
- 10. MI and KU Halliburton.
- 11. Pressure test tubing to 1000 PSI to check tubing.
- 12. Fill hole and circulate 9.27 mud. Once stable circulation has been established, pump 350 sx cement. Sting out of retainer leaving 2 sx on top. Flush is approximately 3½ BBLS.
- 13. TOH with tubing.

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- 14. TIH with 4" casing gun and perforate 4 holes at 655'. RD and MO wireline company.
- 15. Establish circulation down casing with mud, then pump 75 sx cement balance plug to place top of plug at 550' inside and outside casing. WOC.
- 16. TIH with tubing and tag plug. TOE.

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are stated

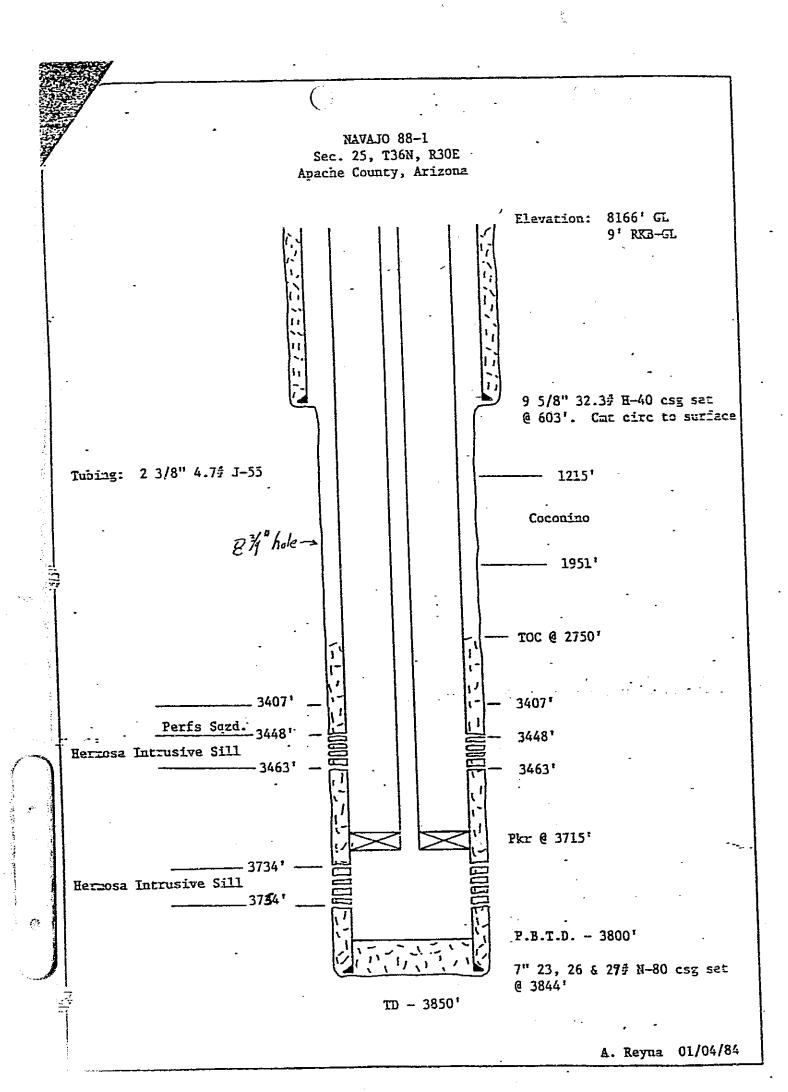
SEE MEEN

AEND PROCEDURE NAVAJO 88-1

- 17. Spot 15 sk surface plug 25' to 5' GL inside and outside 7" casing.
- 12. RD and MO Ealliburton and pulling unit.
- 19. Weld casing cap and place abandonment sign.
- 20. Clean, level, and reseed location.

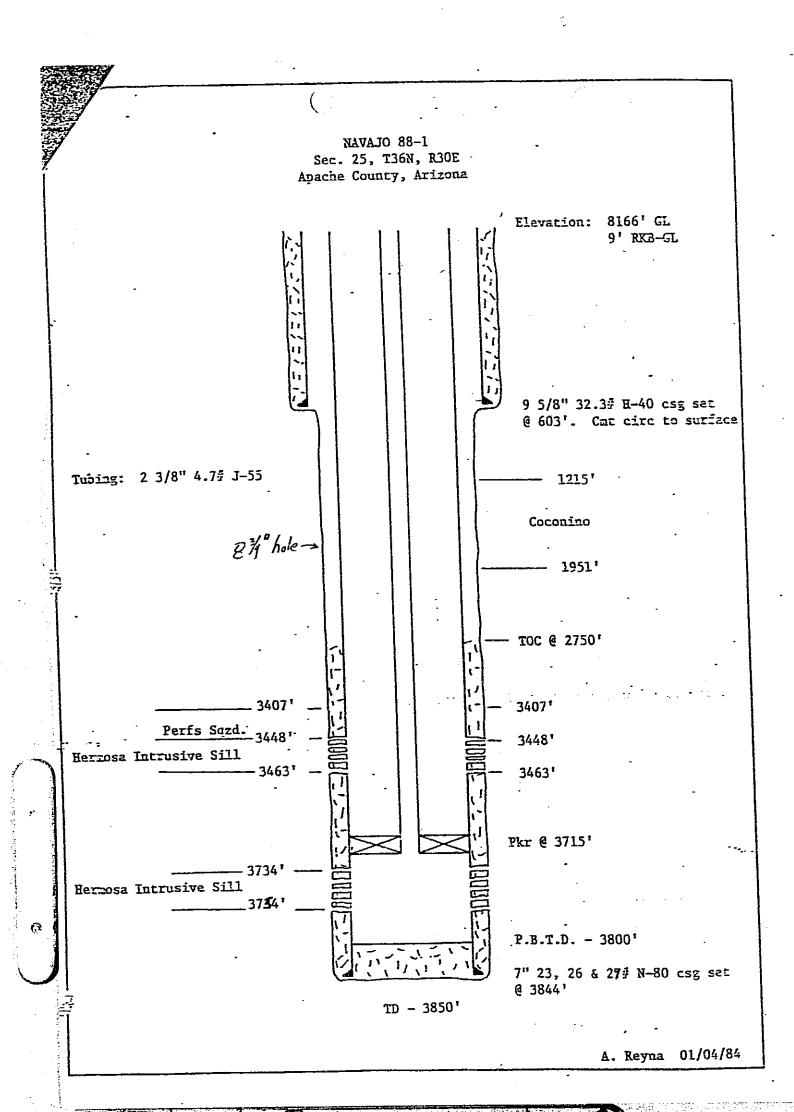
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Formerly 9-331) DEPARTM	NITED STATES ENT (THE INTERIO OF LAND MANAGEMENT	SUBMIT IN TRIPLICATE (Other instructions on re rerse side)	Form approved. Budget Bureau N Expires August 3 LEASE DESIGNATION A 14-20-0603-88	31, 1985 30 ERIAL NO.
SUNDRY NOTICE (Do not use this form for proposal Use "APPLICAT	ES AND REPORTS O	N WELLS ck to a different reservoir.	NAVAJO	, ADD_1 5 100
OIL GAR OTHER			7. UPIT AGEREMENT NAM	0 :
2 YAME OF OPERATOR KERR-MCGEE CORPORATION			NAVAJO TRACI	
U.S. UNSHORE REGION. But Location of Well (Report location cle See also space 17 below.) At surface 660' FSL & 660' FEL	OX 25861, UKLAHOMA C arly and in accordance with any S	ITY, OK 73125	9. WHILE NO. 1 10. FIRED AND POOL, OR DINEH-BI-KE 11. SHC., T., R., M., OR M. SURVET GR AREA SECTION 25-	YAH 28. 270 36N-R29E
14. FEBUT 50. 421	15. BLEVATIONS (Show whether Dr. 8166 GR	81, CB, etc.)	APACHE	AZ
15. Check Ap	propriate Box To Indicate N	ature of Notice, Report, or	Other Data	
SOTICE OF INTEST	HON TO:	. 45341	CORRI PRIORE CA:	·
FRACTURE INEAT MARKET M	CLL OR ALTER CASING BANDON* HANGE PLANS	WATER SHUT-OFF FRACTURE TREATMENT SHOOTING OR ACTURING (Other) (NOTE: Report rem	ALTERING CARANDONNE: to of multiple completion spletion Report and Log for	an Well

THE ABOVE WELL WAS APPROVED FOR PLUG AND ABANDONMENT ON NOVEMBER 13, 1986. THE ACTUAL PLUGGING WAS TO BE COMPLETED BY MAY 1, 1987. KERR-MCGEE WOULD LIKE TO EXTEND THIS APPROVAL FOR ONE YEAR TO MAY 1, 1988. THIS WELL IS CURRENTLY BEING EVALUATED FOR POSSIBLE CONVERSION

TO A HELIUM WELL.

18. I hereby certify that the foregoing is true and correct

SIGNED C. Juna RAYI AN BUNAS TITLE ANALYST II DATE APRIL 9. 1987

(This space for Federal or State office use)

APPROVED BY R. G. YOUNG TITLE Enforcement Director

CONDITIONS OF APPROVAL IF ANY:

*See Instructions on Reverse Side

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as Indicated, on Federal and Indian lands in such Sinte, pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State is an instance of the second of this form and the number of copies to be submitted, particularly with regard to local and regulations. Any necessary special instructions concerning the sauned by an interpretable of the second in the fauled by or into be abled from, the local Federal and/or Sinte office.

item 41 If there are no applicable State requirements, locations on Vederal or Indian land should be described in accordance with Federal requirements. State or Pederal office for specific instructions.

point reports of abandonnent should include such special information as is required by local federal and/or finto offices, a ressons for the abandonnent; data on any former or present productive gones, or other some with present significant depths (top and bottem) and method of pincement of canont plugs; mud or other material placed below, between and asing, liner or tubing pulled and the depth to top of any left in the bole; method of closing top of well; and date well site the abandonneal. Hem IT: Propusals to shandon a well and subsection addition, such proposals and reports should include full contests not sealed off by cement or otherwise; a shows plugs; smount, size, method of parting of any ca conditioned for final inspection looking to approvel of a

PRIVACY ACT

Act of 1974 and the regutation in 4.3 CIFR 2.-18(4) provide that you be following information in connection with information required by this The Privacy / furnished the application.

mett, 351 of, nett, 25 U.S.C. of, sug.; 43 CFR 3160. PURPOSE: The information is to bu used to evaluate, when appropriate, cations, and report completion of secondary well operations, on a Fuderat 30 U.S.C. 181 of. AUTHORITY: PRINCIPAL P approve ripilici

ROUTINE USES: (1) Evaluate the equipment and procedures used during the proposed or completed subsequent well operations. (2) Request and grant approval to perform or completed subsequent well operations to this its nections covered by 43 CFR 3162,3-2(2). (3) Analyze feture applications to trill form or modify operations in 18th of data obtained and motherly invert. (4)(5) Information from the record will be transferred to appropriate fetured. State, local or foreign such the record will be transferred to appropriate fetured. State, and research occurions.

: NOT PROVIDING INFORMATION: IFILING of this notice and report and the information is mandatory unce an oil or gas wall is drillod. EFFECT OF

The Paperwork Raduction Act of 1480. (44 U.B.C. 3501, ot. not.) roquiron un lo inform you thút;

This information is being collected in order to evaluate proposed and/or completed subsequent well appraisons on Fudoral or indian oil and gas lauses.

This information will be used to report subsequent operations once work is completed and when requested, to obtain approval for subsequent operations not previously suthorized.

this request is mandatory for the specific types of nettyltics specified in Response to

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Form approved. Budget Bureau No. 1004-0135 UNITED STATES

BUBMIT IN TRIPLICATE*

OF HE INTERIOR (Other inatructions on reresealde) Form 3150-5 (November 1983) Expires August 31, 1985 EASE DESIGNATION AND SERIAL NO. (Formerly 9-331) £ 14-20-0603-8812 BUREAU OF LAND MANAGEMENT SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.

Use "APPLICATION FOR PERMIT—" for such proposals.) Navajo 7 UNIT ADRESSENT NAME MELT X MELT CYR 8. PARM OR LEASE NAME 2. NAME OF OPERATOR Navajo Tract 88 Kerr-McGee Corporation 9. WELL NO. 3. ADDRESS OF OPERATOR U.S. Onshore, Box 25861, Oklahoma City, OK 73125 LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface 10. FIELD AND POCL, OR WILDCAT Dineh-Bi-Keyah 11. SEC., T., R., M., OR SET. AND SURVEY OR AREA 660' FSL & 660' FEL Section 25-36N-29E 12. COUNTY OR PARISH 13. STATE 15. ELEVATIONS (Show whether DF, BT, GR, etc.) 14. PERMIT NO. Apache 421 Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data 15. SUBSEQUENT REPORT OF: NOTICE OF INTENTION TO: REPAIRING WELL WATER SHCT-OFF PULL OR ALTER CASING TEST WATER SECT-OFF ALTERING CARING PRACTURE TREATMENT MULTIPLE COMPLETE PRACTURE TREAT **ABANDONMENT^a** SHOOTING OR ACIDIZING SHOOT OR ACIDIZE (Other) (Norn: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) REPAIR WELL 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and tones pertinent to this work.) The above well is temporarily abandoned. Kerr-McGee had plans to permanently P & A this well but upon further evaluation it has been determined that this well may be utilized in a possible future waterflood project. We request approval to leave this well in its temporarily abandoned status. 18. I hereby certify that the foregoing is true and correct 10-14-86 TITLE Analyst II Bunas (This space for Federal or State office use) DATE APPROVED BY TITLE CONDITIONS OF APPROVAL, IF ANT:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

CLICATION TO ABANDON AND PLO

FIELD	Dineh-Bi-Keya					
OPERATOR	Kerr-McGee	Corporation	AD	DRESS P.O. I	Box 250, Amarillo	, Texas 79189
Federal, Stator or Lessor's N	te, or Indian Lease . Jame if Fee Lease	14-20-060	3-8812 Nava	jo Tract 88	WELL NO	1
SURVEY		SECTION	25-T36N -	R29E	COUNTY_Apache	<u> </u>
LOCATION	CCOL DOT	660' FEL				
TYPE OF \	WELL Oil	(Oil, Ga	s or Dry Hole)	· · · · · · · · · · · · · · · · · · ·	TOTAL DEPTH	3800' P.B.T.D.
ALLOWAB	LE (If Assigned)_					(Dhi-)
LAST PRO	DUCTION TEST			(Bbls.)	WATER3	
					DATE OF TEST	
PRODUCIN	IG HORIZON H	ermosa Intrusiv	re Sill PR	ODUCING FROM	3734то.	3734
1. COMPLE	ETE CASING REC	ORD				
					ment.	
7" cs	ig. 23, 26 &	29# J-55 csg. :	set @ 3844'.	. Cement w/15	0 sks cement.	
_						
		DOGED BY AN OF I	HORK 1) MI	& RU Pulling	Unit. NU 3000#	вор.
2. FULL I	ETAILS OF PRO	COSED PLAN OF V	and nacker			
	Unseat pkr. at MI and RU wire					
		ing and run to	=			
		on wireline an				
7)	TIH w/4" csg.	gun and perfor	ate 4 holes	s @ 2005'.		
* If well is proposed	See reverse : to be abandoned, d procedure above.	side for comple loes proposed work o	etion of pro conform with re	ocedure. equirements of Rule	202?	If not, outline
DATE CO	MMENCING OPER	ATIONS May	1, 1984			
NAME OF	F PERSON DOING	WORK Hallibu	urton Servi	esADDRE	SS P.O. Drawer 9	60, Farmington, N 8740
CORRESI	ONDENCE SHOU	LD BE SENT TO_	Aaron Rey	na faron l	yna	
			Name Engineeri	ng Assistant	•	
			Title			
			P.O. Box	250, Amarillo	, Texas 79189	
			April 6,	1984		
			Date			
					STATE OF ARIZONA	1
Date App	proved 4 /10/	84			AS CONSERVATION C	ļ
	=	OF ARIZONA ERVATION COMMIS	SION	^	pplication to Abandon and File Two Copies	Plug
	P A 711				z z zpried	

See a Hacked Report on Proposed Operations

421 Permit No._

8) TIH w/Halliburton EZ Drill SV cement retainer on tubing. Set retainer at 1160'.

9) MI & RU Halliburton.

10) Pressure test tubing to 1000 psi to check tubing.

11) Fill hole and circulate 9.2# mud. Once stable circulation has been established, pump 350 sx cement. Sting out of retainer leaving 2 sx on top of retainer.

TOOH w/tubing.

- 13) TIH w/4" csg. gun and perforate 4 holes @ 655'. RD and MO wireline company.
- Establish circulation down casing w/9.2# mud, then pump 75 sx cement balance plug to place top of plug at 550' inside and outside of casing. WOC.

TIH w/tbg. and tag plug. TOOH.

Spot 15 sk. surface plug 25' to 5' GL inside and outside of 7" casing.

RD & MO pulling unit and Halliburton.

Weld casing cap and place abandonment sign.

Clean, level, and reseed location.

STATE OF ARIZONA

OIL AND GAS CONSERVATION COMMISSION

PERMIT 421

REPORT ON PROPOSED OPERATIONS

P. (Box 250	Phoenix ARIZON
Amaı	rillo, Texas 79189	April 10, 1984
Your	proposal to	abandon well 1 Navajo-88
A.P.I. N	02-001-20045	Section 25 , 1. 30k , R. Warner B. C. M.,
Din	eh-bi-Keyah	neid.
Apa	che County, dated_	4-6-84 , received 4-9-84 has been examined in conjunction with record
filed in	his office.	
THE	PROPOSAL IS APPROVED P	ROVIDED:
		ntion equipment shall be installed, used and maintained
	Adequate blowout preve	ntion equipment shall be installed, used and maintained rations.
1.	Adequate blowout preve during abandonment ope This Commission shall	ntion equipment shall be installed, used and maintained rations.
1.	Adequate blowout preve during abandonment ope This Commission shall a. To witness the sho	ntion equipment shall be installed, used and maintained rations. be notified:

BOND Blanket A. K. DOSS, Executive Director

By R. G. Yhana Enforcement Director

A copy of this report and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 30 days after the work has been completed or the operations have been suspended.

GAS-OIL RATIO TEST REPORTS

Filed under Oil-Gas Ratio Tests, Dineh-bi-Keyah Field in cabinet in office of Enforcement Director

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Summer CE



ARIZONA SECONDARY RECOVERY PROGRAM PROPOSED

The Arizona Oil and Gas Conservation Commission will hold a hearing September 19 to consider an application by Kerr-McGee Corp for a secondary recovery program using injection of salt water into the Hermosa formation in Dineh Bi Keyah field, using injection of salt water into the project is in 29 through 33-36n-30e, 5 and 6-Apache County. The location for the project is in 29 through 33-36n-30e, 5 and 6-Apache County. The location for the project is in 29 through 33-36n-30e, 5 and 6-Apache County. The location for the project is in 29 through 33-36n-30e, 5 and 6-Apache County. The location bbls 35n-30e, and 25 and 36-36n-29e. The field has produced more than 13.7 million bbls of oil, 1.8 billion cu ft of gas and 2.4 million bbls of water. The hearing begins of oil, 1.8 billion cu ft of gas and 2.4 million bbls of water. The hearing begins at 10:00 am at the Oil and Gas Conservation Commission office, 8686 North Central Avenue, Suite 106, Phoenix.

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Q

ICATE* Form approved.
Budget Bureau No. 42-R1424.
5. LEASE DESIGNATION AND SERIAL NO. (ITED STATES SUBMIT IN TO OCCUPANT OF THE INTERIOR Verse side) Form 9-331 (May 1963) 14-20-0603-8812 6. IFTERDIAN, ALLOTTEE OR TRIBE NAME GEOLOGICAL SURVEY SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.

Use "APPLICATION FOR PERMIT—" for such proposals.) Navajo 7. UNIT AGREEMENT NAME WELL GAS WELL OTHER H. FARM OR LEASE NAME 2. NAME OF OPERATOR Ravajo Tract 88 Kerr-McGee Corporation 3. ADDRESS OF OPERATOR _ P. O. Box 250, Amarillo, Texas 79105 LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface 10 PIELD AND POOL, OR WILDCAT Dineh-bi-keyah 11. SEC. T. B.M. OF REK. AND SORVEY OF AREA! SAC. 25-368-292, GLSRM SE SE (660' FSL and 660' FEL) of Sec. 25 12 COUNTY OF PARISH | 18. STATE 14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, CR, etc.) Apache Arizona Arisona (121) 8,175' KB Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data SUBSEQUENT REPORT OF : NOTICE OF INTENTION TO: REPAIRING WELL PULL OR ALTER CASING WATER SHUT-OFF TEST WATER SHUT-OFF VILLERING_CYRING PRACTURS TREATMENT FRACTURE TREAT MULTIPLE COMPLETE *INAK KOOKÄEA SHOOTING OR ACIDIZING ABANDON* (Other) Change in operator SHOOT OR ACIDISE (Other) Change in Operator K (Nove: Report results of multiple completion on Well Completion or Recompletion: Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)* Effective January 1, 1973, operation of this well was transferred from Humble Oil & Refining Company to Kerr-McGee Corporation RECEIVED 18. I hereby certify that the foregoing is true and correct TITLE District Prod. Supt nobie to disk (This apace for Federal or State office use)

The second secon

*See Instructions on Reverse Side

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OPERATO	R ERTIFICATI	OF COMPLIANC	E AND AU	RIZATION
Navajo Tract 88	TO TRANSPO	RT OIL OR GAS	FROM LEAS	šĒ .
Federal. State or Indian Lease Number, or Jessor's name If fee lease 14-20-0603-8812	Field Dineh-bi-Keyah			Reservoir Lower Hermosa (Intrusion
		or-veagu		State
Survey or Sec-Twp-Rge Sec 25, 26, 35, 36, T3	County 6N R29E	Apache		Arizona
Operator			•	
Kerr-McGee Corporation	1			
		PONDENCE CONCE	RNING THIS I	FORM TO:
Street	City			State
P. O. Box 250	Amaril	lo	_	Texas 79105
Above named operator authorizes (name o	f transporter)			
Kerr-McGee Pipeline Co	orp.			
Transporter's street address	City			State
Kerr-McGee Center	Oklahoma City			Oklahoma 73102
Field address				
P. O. Box 989, Farmin	gton, New	Mexico 87	401	
		lensate, gas well gas,	casinghead gas	
				_
To transport 100 % of the Oil				from said lease.
OTHER GA	THERERS TRANS	PORTING FROM TH	IS LEASE ARE	E AS FOLLOWS:
Name of gatherer	% transported Produc			ansported
None				
		İ		
Indicate whether or not this certificate lease name, change of gatherer, or a co	is for a new lease. nsolidation or sub	If not a new lease, livision of leases and	indicate whetl give effective	her or not it is a change of operator, change of date of change.
Chango in Operator:	effective	January 1.	1973.	operator of this lease
change in Operator:	nble Oil &	Refining C	o. to K	err-McGee Corporation.
Changed 110M Hu				• • • • • • • • • • • • • • • • • • •

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the____ Kerr-McGee Corporation (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge. January 3, 1973 RECEIVED

The undersigned certifies that the rules and regulations of the State of Arizona Oil & Gas Conservation Commission have been complied with in drilling and producing operations on this lease, except as noted above, and that the above transporter is authorized to transport the above specified percentage of the allowable oil or gas produced from the above described property, and that this authorization will be valid until further notice or until cancelled by the State of Arizona Oil & Gas Conservation Commission.

Date approved: STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

Arizona - 2 USGS - 2 Tribe 1

HCH - 1

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JAN 0 8 1975

0 & G CONS. COMin.

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

Operator's Certificate of Compliance & Authorization to Transport Oil or Gas from Lease File Two Copies

Form No. 8





Gil and Cas Conservation Commission

STATE OF ARIZONA

4515 NORTH 7TH AVE. PHOENIX, ARIZONA 85013 PHONE: (602) 271-5161

December 28, 1972

Memo from W. E. Allen, Director **Enforcement Section**

Memo to Files:

Humble Oil & Ref. Navajo #138-1 Permit No. 388

Humble Oil & Ref. Navajo #88-1 Permit No. (421)

Humble Oil & Ref. Navajo #88-2 Permit No. 431

Humble Oil & Ref. Navajo #88-3 Permit No. 443

Joe Breeden, Kerr-McGee, called to advise that Kerr-McGee was taking over the operations of the subject wells as of January 1, 1973. They have purchased all of Humble's holdings within the Dineh Bi Keyah Field in Apache County.

Mr. Breeden was inquiring as to what the Commission would require as evidence that Kerr-McGee had assumed the operations of the Humble properties. I told him that we would need a letter from Humble or a copy of the instruments transferring ownership from Humble to Kerr-McGee. Since Kerr-McGee has a blanket bond covering all their operations within the State of Arizona, the bonding of the above wells will be no problem.

September 18, 1970

Memo from W. E. Allen

Memo to Humble #1 Navajo 88 SE/4 SE/4 Sec. 25-T36N-R29E Apache County Our File #421

Harold Ferris called this a.m. to report a flow line had broken and some 90 barrels of oil had escaped. He reported that he had crews in the process of picking up what oil could be salvaged and destroying the remainer by burning where possible. Mr. Ferris is to have a complete and detailed report submitted to this office at an early date.

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	Ti	TED STATE	.	SUBMIT IN TR CATE	Form approved. Budget Bureau No. 42-R1424.
Form 9-331 (May 1963)	DEDARTM	ENT OF THE	INTERIOR	(Alban instruction on re	
		EOLOGICAL SU		•	14-20-0603-8812 3 2 2
				I VA/ELLC	6. IF INDIAN, ALLOTTER OR TRIBE BAME
Si	JNDRY NOII	CES AND REF	OKIS ON	to a different reservoir.	Navajo el Cara
(Do not use	Use "APPLICA	TION FOR PERMIT	" for such propo	to a different reservoir.	
ī.					7. UNIT AGENERAL NAME OF THE SECOND
MELL GYZ	L X OTHER				8. FARM OR LEASE NAME
2. NAME OF OPERATO					Ravaja Tracta 88
Humble Oil	& Refining	Company			9. WELL NO.
		delamada 805	TOT		1 Maga Bagas
A LOCATION OF WEL	L (Report location c	Colorado 802	ice with any Str	te requirements.*	10. FIELD AND POOL, OR WHATCAT
See also space 17 At surface	' below.)				Dineh bil Keyah 3 3
1660	1 707 4 6601	TREET \ ad Soci	dan 95		11. SEC. T. E. S., OR SEE AND SERVICE AREAS
SE SE (660	. kar e oon.	FEL) of Sect	10n 2)		Sec. 25-36N-292 - 64SPM
المعاود حد	55	15. ELEVATIONS (She	- hether DE W	T (T) etc.)	12. COUNTY OR PARISH 13. FRANK
14. PERMIT NO.		_	ow whether Dr. a	i, un, com	Apache a Arizona
Arizona #42		8,175' KB			<u> </u>
16.	Check A	ppropriate Box To	Indicate Na	ture of Notice, Report, or	COther Data Data Berthall British
	NOTICE OF INTE	NTION TO:	1	角である。	EQUENT REPORT OF A LINE OF
test water si	IGT-OFF	PULL OR ALTER CASIN		WATER SHUT-OFF	E REPAIRING WELF
FRACTURE TREA		MULTIPLE COMPLETE		FRACTURE TREATMENT	ALTERING CLEANER TELE
SHOOT OR ACID	<u> </u>	ABANDON*		SHOOTING OR ACIDIZING	S SEANDONMENT OF SEASON
REFAIR WELL		CHANGE PLANS		(Other) Supplemen	ales of multiple persistantion and types~
(Other)				Completion or Reco	tes including estimated date of statting any
17. DESCRIBE PROPO- proposed wor	SED OR COMPLETED OF k. If well is direct	EBATIONS (Clearly stationally drilled. give st	te all pertineut ubsurface locatio	details, and give pertinent da as and measured and true ver	tes, including estimated date of statting ally citical depths for all markers and solest perfit-
nent to this v	ork.) *				May ni Hay ni Ha
					See
A three	week produc	tion test was	conduct e	d during July and	August, #yoyaum _ Each
the Low	er Sill inte	rval 3,734-54	for an	average of 7 BOPD	and no waters unishes
(test wa	s to check f	or any change	s due to	disposal of product	ed water into the all a
(sill in	well #00-4.	To gate 29,	out parre	ls of produced wat ects have been exp	er have been injected a commence of the commen
into th	е отвров ет м	err and no so	Metac err	SEAB DOLC ACCU ON	불취실성병 시오 경약염수
			•		
					[1] SASE 5 表。
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					(O) THE LOSS OF TH
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		a		***	CFTO Table of the CFTO Table o
cc: 2 - Arison	m Oil & Ges	Conservation	-dhe	96	appe and and and and and and and and and and
		or - Navajo T	T TAC		######################################
18. I hereby cert	ty that the toregolo	to true and correct	>	.	Control of the contro
SIGNED	162	mary	TITE	Dist. Supt.	DATE CYCLOT A SEC
(Thin space	or Federal or State	office use)			
The state of the s			(BINEY In		tenors or Real Mark or Real Mark incorrection of Real Mark incorrection
APPROVED :	BYBYBY AL, I	r any:	TITLE		o Lune Shale Halide La ad Barle En ad Barle Bar
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*See Instructions on Reverse Side

X-Chrono X-LAMBERT

July 21, 1969

Re: Humble #1 Navajo 88 T36N, R29E, G & SRM Sec. 25: SE/4 SE/4

Apache County Permit #421

From J. A. Lambert

Roy Dorrough telephoned this date. He notified us that this well which has been carried in temporary abandon status will be produced. The gas produced from the upper zone will be used on the lease and the small amount of oil that will be produced will be reported as it is sold. This oil production is more in the manner of testing than it is in trying to get commercial production from this well at this time. It is really a study prodecure utilizing the gas produced and used in operating the nearby salt water injection well.

PERmit 447 Humble 88-4

LESSEE'S MONTHLY REPORT OF OPERATIONS

Buc	lget Bureau No. 42-R356.5.
LAND OFFICE	
LEASE NUMBER	14-20-0603-8812

GEOLOGICAL SURVEY

BEC. AND WELL DAYS BARRES OF OIL GRAVITY CU. FT. OF GAS (In thousands) REMARKS (If drilling, depth: Hobut down, come: RECOVERED RECOVER				Deny	er, C	olorado 80	201	Sign	ned		& Refining Company
AVAJO TRECT 88 - ARIZONA PERMIT NO. 421 ec. 25 8 SE 36N 29E 1 20 121 Consumed on the lefor fuel.			1	WELL	Days		<u> </u>	Cu. Fr. of Gas	GALLONS OF GASOLINE	BARRELS OF WATER (II	REMARKS (If drilling, depth; if shut down, couse; date and result of test for gasoline
ec. 25 SE 36N 29E 1 20 121 Consumed on the lefor fuel.					<u></u> 141 - w .	200					
SSE 36N 29E 1 20 121 Consumed on the le for fuel.	VAJO T	r ac i'	88 -	ARI	ZONA	PERMIT NO.	421				
	•	36N	29E	1	20	-	-	121	-	-	Consumed on the less for fuel.

runs or sales of gasoline during the month. (Write "no" where applicable.)

Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

runs or sales of oil;

n. 9-329 2ary 1950)

Nore.—There were ...

GPO 837-082

IG--25785-9 U. S. GOVERNMENT PRINTING OFFIC

M cu. ft. of gaz sold;

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Form	approved	L.		
Budge	t Bureau	No.	42-R356.	5

LESSEE'S MONTHLY REPORT OF OPERATIONS

	Arizo	ma		Co	untu	Apa	che		Fiel	d Dine	h bi Key	ah
State _ Th	e follo	wing	is a	correc	t repoi	t of	operati	ons and	proc	 luction (iπ	cluding d	rilling and producing
	e 12.		th at		Ju	me		. <i>19</i> 69				
Agent'	s addre	ss P	. 0.	Box 1	20		 -		Con	ipany Humb	le 011 8	Befining Company
		De	nver	, Col	orado	8020	1		. Sigr	red t	A ST	
Phone		5	34-12	251					. Age	nt's title	Dist. Su	ipt.
SEC. AND 14 OF 14		Bange	WEIL No.	DATS PRODUCED	Barreis	or Oil	GRAVITY	Cu. Fr. or (In thous	r Gas ands)	Gallons of Gasoline Recovered	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NAVAJO 1	RACT	88 -	ARIZ	CONA F	ermit	NO.	121					The state of the s
Sec. 25 SE SE	36N	29E	1	o					STA	PECENTUL 2 190		operations suspended 9-5-68. See Sundry Notice dated 9-19-68. No work has been done since this date.
9								TO THE PERSON NAMED IN COLUMN TO THE	CON	COMM.		since onts date.
NOTE:	COMPIN APPROV	VE I	n te r 8-:	MPORAF 12-68	RY ABA	NDONI	ED STA	TUS PEI	R LET	TER DATE	p 8-6-68	AND YOUR
+	This wapprov	al t	was o co	not ii	lclude	d in	your status	let é er until	date 6-16	6-12-6 6-1970, v	granti	ng hereby
cc: 1/2 ·	- Ariz - Mine	ona	Oll Sup	Dete _	Conse	(o/c	VE.	missi	-/4 on	!4		
	Note —	Phere :	were	No)		runs	s or sales o	of oil;	No		M cu. ft. of gas sold;
		No.			TUBS OF	sales o	f gasolin	e during t	he mo	nth. (Write	"no" where	applicable.)
đupli	Note.—]	Report h the s	on th supervi	is form i sor by t	s require he 6th ol	d for e	ach caler occeeding	idar mont month, u	h, rega inless o	ordless of the otherwise dire	status of ope ected by the	erations, and must be filed in supervisor.

Form 9-329 (January 1950)

GPO 837-082

	Form a Budget	pproved Buresu	Νo.	42-R356.	5.
Osta ce					

LESSEE'S MONTHLY REPORT OF OPERATIONS

State	Aria	ens.		Co	unty Ape	che	Fie	ldDin	eh bi Key	yeh
Th	e tolle	owing	is a	correc	t report of	operati	ons and pro	duction (ir	ncluding d	rilling and producing
wells) f	or the	mon_	th of		Ex.		, <u>19. 69,</u>	Three	hle Oll /	& Refining Company
Agent's	addr	ess 🗜	• 0•	BOX	2 000			npany	Salar Barry and	Refining Company
			елуе	r. Col	LOTEGO OUK	<u>u</u>	Sigi	nea	Wat. S	ord.
Phone .		2	34-1	<u> </u>					T	upt.
BEC. AND MOFM	Twr.	RANGE	WELL No.	DATA PRODUCED	Barres of Oil	GRAVITI	Cu. Fr. or Gas (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	(If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NAVA IO T	ACP.	88 -	ARTS	CONA P	CONSTRE	100000000000000000000000000000000000000				
Sec. 25		298			0	-	91	-	-	Started using some gas for lease fuel. This total amount was consumed on the lease.
				1						
oc: 2	- Ari	zona	011	& Ges	Consersa t	iton C	ommission			S C S S S S S S S S S S S S S S S S S S
1	- Mir	eral	s Su	perv16	or . Heve.	O TEL				30 (7)
€ \ ×	OTTE	There	were .			rudi	or sales of oil;			M cu. 12 of ges sold

runs or sales of gasoline during the month. (Write "no" where applicable.)

Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

GPO 837-082

Form approved. Budget Bureau No. 42-R356.5.
LAND OFFICE 14-20-0603-8812
LEASE NUMBER 14-20-UCU3-0012
UKIT

LESSEE'S MONTHLY REPORT OF OPERATIONS

State		zona		Ca	ounty Apr	che		ld Din		
The	follo	wing	ie a	correc	t report of	operati	978 and pro	duction (ir	icluding d	rilling and producing
wells) fo	or the	mon,	tn of	Bou	Beptember	70	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	m nanu Rus	ble Oil (Perining Conveny
Agent's	adar	ess! 1	CeV	e	olorado 80	201	Sig		At	mecon
			_	1251	7707 000		-	ent's title	Dist.	Supt.
Phone.			2.3***	<u> </u>						REMARKS
SEC. AND MORM	Twp.	RANGE	WELL No.	DATS Pronuced	Barrels of Oil	GRAVITY	Cu. Fr. or Gas (In thousands)	Gallons of Gasoline Progyened	BARRES OF WATER (If none, so state)	(If drilling depth; If shut down, cause; date and result of test for gasoline content of gas)
HAVAJO T	RACT	88 -	ARI	ZOBA I	PERMIT NO.	421				
Sec. 25 SE SE	36 x	298	1	0						Pulled 32" tubing & packer at 3412". Knocked out BP at 355 & drove to 3790'. Ra 2" tubing with packer & set packer at 3715; Swabbed down & shut well in on 9-5-68.
note:	CON	TENUE	IN R API	TEMPO PROVAL	RARY ABANI OF 8-12-6	ONE ST	ATUS PER I	EFFER DAT	RED 8-6-6	
ď								16118	11 CO 15 O	O COMMINICATION OF THE PARTY OF
					s Conserve sor – Mave					

runs or sales of gasoline during the month. (Write "no" where applicable.)

Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor. Form 9-329 (January 1950)

runs or sales of oil;

Note.—There were

GPO 837-082

16-25766-9 U. S. COVERBREAT PRINTING OFFICE

... M cu. ft. of gas sold;

LOCATION OF WELL See also space 17 b	(Report location	chearly and in accordan	ce with any Sta	ate requirements.		and Pool, OR	
At surface		o' FEL) of Sec	tion 25		11. 8EC.,	T., R., M., OR BY EVRY OR AREA	K. AND
					Sec.	25-365+	
PERMIT NO.	421	8,175 KB	ow whether DF, &		Apa		Arlson
	Check A	ppropriate Box To	Indicate Na	iture of Notice, Report,	or Other Dates		
	NOTICE OF INT	INTION TO:	\		BKEQUERI ESTO	REPAIRING B	
TEST WATER SHU	T-OFF	PULL OR ALTER CASING	°	WATER SHUT-OFF FRACTURE TREATMENT		ALTERING CA	<u> </u>
SHOOT OR ACIDIZE		MULTIPLE COMPLETS ABANDON*		SHOOTING OR ACIDIZING		ABANDONMEN	120
BEPAIR WELL		CHANGE PLANS		(Other) Supplem (Nork: Report r		le completion	on Well
				Completion of Re	completion 10.9	. The same and shot	z of eterline
Well was	shut in or	7-12-68. On and 7" packer 700'. Ran 2-	9-3-68 m set at 3,	oved in workover 412'. Knocked or ing with 7" retrie	rig, kill it bridge evable pa	ied well, plug at ther and	and somes How on American
Well was pulled 3, 550', 6 swabbed 3, 734-50	shut in or bubing a drove to 3, well to get Swabbed for Moved	7-12-68. On and 7" packer 790'. Ran 2-	9-3-68 m set at 3, 3/8" tubi rom perfo set gas st	woved in workover 412'. Knocked on ing with 7" retries 3,407-63 tarted flowing from	rig, kill it bridge evable pa	ied well, plug at cher and acker at	REDEVED.
Well was pulled 3, 550', awabbed 3,715'. 3,734-50 WILL NOW	shut in or bubing drove to 3 well to get Swabbed for Hoved	7-12-68. On and 7" packer .790'. Ran 2-t it flowing i or 1 hour to goff rig 9-5-68	9-3-68 m set at 3, 3/8" tubi rom perfo set gas st	woved in workover 412'. Knocked on ing with 7" retries 3,407-63 tarted flowing from	rig, kill it bridge evable pa	ied well, plug at cher and acker at	The state of the s
Well was pulled 3,750, 6 swabbed 3,734-50	shut in or bubing drove to 3 well to get Swabbed for Hoved	7-12-68. On and 7" packer .790'. Ran 2-t it flowing i or 1 hour to goff rig 9-5-68	9-3-68 m set at 3, 3/8" tubi rom perfor et gas st	woved in workover 412'. Knocked on ing with 7" retries 3,407-63 tarted flowing from	rig, kill it bridge evable par Set p	ied well, plug at cher and acker at	The state of the s
Well was pulled 3, 7550', avabbed 3, 734-50 WILL KON	shut in or bubing drove to 3 well to get Swabbed for Hoved	7-12-68. On and 7" packer ,790'. Ran 2-6. It flowing for 1 hour to goff rig 9-5-68. IN TEMPORARY	9-3-68 m set at 3, 3/8" tubi rom perfor et gas st	soved in workover 412'. Knocked on ing with 7" retries 3,467-63 tarted flowing from STATUS.	rig, kill it bridge evable par Set p	ied well, plug at cher and acker at	The state of the s

UNITY STATES SUBMIT IN TRIPLICA (Other Instructions on DEPARTMENT OF THE INTERIOR verse side) Form approved. Budget Bureau No. 42-B1424. 5. LEASE DESIGNATION AND SERIAL NO. 14-20-0603-8812 GEOLOGICAL SURVEY 6. IF INDIAN, ALLOTTER OR TRIBE NAME SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.

Use "APPLICATION FOR PERMIT—" for such proposals.) 7. UNIT AGREEMENT NAME OIL GAS WELL TOTHER 8. FARM OR LEASE NAME 2. NAME OF OPERATOR Navajo Tract 88 Rimble Oil & Refining Company S. WELL NO. 3. ADDRESS OF OPERATOR P. C. Box 120, Denver, Colorado 80201 LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
 See also space 17 below.)
 At surface 10. FIELD AND POOL, OR WILDCAT Dineh bi Keyah 11. SEC., T., R., M., OR BEK. AND SURVEY OR: AREA SE SE (660' FSL & 660' FEL) of Section 25 Sec. 25-361-29E - GASTAN 12. COUNTY OF PARISE 13. STATE 15. ELEVATIONS (Show whether DP, RT, GR, etc.) Arisona 8175' KB Arizona No. 421 Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data-16. REPAIRING WELL PULL OR ALTER CASING TEST WATER SHUT-OFF PRACTURE TREATMENT MULTIPLE COMPLETE FRACTURE TREAT SHOOTING OR ACIDIZING ABANDON* SHOOT OR ACIDIZE (ofgerations subsequent to 5-21-68 REPAIR WELL (Nors: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) (Other) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and somes pertinent to this work.) Moved in pulling unit, unseated packer at 3412' and reset at 3355'. Symbled well, kicked off flowing. Tested five days at rate of 600 MCFPD, 540f flowing tubing pressure. Shut in on 7-12-68. NOTE: TEMPORARY ABANDONMENT LETTER IS BEING SUBMITTED WITH THIS REPORT FOR YOUR APPROVAL.

*See Instructions on Reverse Side

DATE

TITLE _

TITLE

APPROVED BY _______ CONDITIONS OF APPROVAL, IF ANY:

Form approved. Budget Bureau No.	42-R356.5.
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LESSEE'S MONTHLY REPORT OF OPERATIONS

State	Arlı	cona.		Co	untyApa	he	Fie	ld Dine	h bi Keye	FP.
erre	4-71-		in a	AAPPAA	t report of o	operatio	ons and pro-	duction (in	iciuaing a	num producing
wells) fo	r the	mon	th of		August		, 19. 00 .,	15 h	whle Oil	& Refining Company
Agent's	addr	288 I	2 . 0.	Box	120		Co1	npany n	##K## ***	& Refining Company
		I	<u>)enve</u>	r, Co	lorado 802	01	Sig	ned	SIGNED	JOHN R. CROUCH
Phone			534-1	251			Age	ent's title	Marie William	inistrative Supr.
SEC. AND	Twr.	RANGE	WELL No.	Дата Рвориско	BARRES OF OIL	GRAVITY	Cu. Fr. or Gas (In thousands)	GALLONS OF GASOLINE RECOVERED	WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
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	CT	5 - ,	AHLZ	DEA PE	RMIT NO. 4					_
. 25 SE	36 H	29E	1	0						Operations suspend 7-12-68. See Sund
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Norn.—There were _______ runs or sales of oil; _______ Mcu. ft. of gas sold; _______ runs or sales of gasoline during the month. (Write "no" where applicable.)

Nors.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

(}

GPO 837-082

15-25756-9 U. S. GOYERHMENT PRINTING OFFICE

	Budget Bureau No. 42-R356.5.
LAND	OFFICE
LEASE	NUMBER 14-20-9603-8812

LESSEE'S MONTHLY REPORT OF OPERATIONS

Ari	some.		Co	unty Apr	che	Fie	ldDL1	neh-bi-Ke	yala
folla	uino	is a	correc	t report of	operati	ons and pro	duction (it	ncludin g d	rilling and producing
or the	mon	th of		July		, <i>19.</i> 68 .,			
addr	ess	P (). Box	120		Cor	npany . 🌇	ble Oil	A-Refining-Company
		Dezza	rer,-C	clorado 80	50 T	Sigi	ned		viay)
 -		534	1251		·	Age	at's title	Diet. S	pt.
	1	WELL No.	DATE PRODUCED		į l	Cu. Fr. or Gas (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRES OF WATER (II none, so state)	REMARKS (If drilling, doubt if shut down, cause; date and result of test for gasoline content of gas)
ACT	88 -	ARI	COMA F	ermit Mo.	121				
36H	29B	1							Tested 5 days. Shi in on 7-12-68.
गमर	MPORA	RY A	BANDO	MENT LETT	er bei	NG SUBMITT	ED WITH	THIS REPR	RT.
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	follor the addr	following or the monaddress	following is a or the month of address P. C. Denn 534 Twr. RANGE WELL NO. WELL NO. 1	following is a corrector the month of address P. O. Box Denver, C 534-1251 TWP. RANGE WELL DAYS PRODUCED ACT 88 - ARIZOMA I	following is a correct report of or the month of	following is a correct report of operation the month of	following is a correct report of operations and proper the month of	following is a correct report of operations and production (in the month of	TWP. RANGE WELL DAYS BARREIS OF OIL GRAVITY CU. FT. OF GAS GASOLINE RECOVERED WATER (II HOUSENDS) ACT 38 - ARIZONA FERMIT NO. 421

M cu. ft. of gas sold; runs or sales of oil;

Note.—There were ______ runs or sales of oil; ______ Me cu. ft. of gas sold; ______ runs or sales of gasoline during the month. (Write "no" where applicable.)

Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

15-25768-9 U. S. GOTERHEEST PRINTING OFFICE

GPO 537-052

Form approved. Budget Bureau No. 42-R356.5.
LAND OFFICE
LEASE NUMBER
UNIT

LESSEE'S MONTHLY REPORT OF OPERATIONS

State	Ari	2000		Co	unty	App	:be	Fi	eld Din	eh bi Key	ah
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Adent's	addr	ess	P. (). Box	120			Ca	mpany		· · · · · · · · · · · · · · · · · · ·
ingoist o			Denv	er, C	olorad	o 80	201	Si	gned Hu	mble 011	& Befining Company
Phone .											ef Engineer
SEC. AND HOV H	Twr.	RANGZ	Well No.	Дата Расочени	Barreis	OF OIL	GRAVITE	Cu. Fr. or Gas (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
et olvan	ACT	8 8 -	ARI	ONA F	ERMIT	nos.	421 8	<u>447</u>			
Sec.25 SE SE	36■	29%	1	0		0					Moving in pulling unit to continue to test gas flow. Will not flow, will swab in.
Sec.25 SE RW	36	298	4	0		0	· · · · · · · · · · · · · · · · · · ·				Operations suspended as of 3-5-68. See Sundry Notice dated 3-11-68. No work haveen done since this date.
					s Cons			Commission (be			

... M cu. ft. of gas sold; .. runs or sales of oil; .. Note.—There were ...

nuns or sales of gasoline during the month. (Write "no" where applicable.)

Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

GPO 837-082

17 1963)		LO (Other	IT IN TRIPA TE*	Dunker Durese 140	
Ui	EPARTMENT OF THE GEOLOGICAL SI	INTERIOR Verse	ide)	5. LEASE DESIGNATION AND 11-20-0603-8812	: :
, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>				6. IF INDIAN, ALLOTTEE OR 1	BIRE KAME
SUNDR (Do not use this form	Y NOTICES AND RE to proposals to drill or to dec "APPLICATION FOR PERMIT-	PORTS ON WELl pen or plug back to a diff —" for such proposals.)	LS erent reservoir.	Have.jo	
				7. UNIT AGREEMENT NAME	
WELL GAS WELL GAS NAME OF OPERATOR	язнто			8. FARM OR LEASE NAME	
Amble Cil & Re	fining Company			Have jo Pract Co.	
ADDRESS OF OPERATOR	Denver, Coloredo 80	2 01		1	
LOCATION OF WELL (Report See also space 17 below.)	rt location clearly and in accorda	nce with any State requir	ements.*	10. FIRLD AND POOL, OR WIL	DCAT
At surface				Dinch bi Keyel.	TAID :
sæ sæ (660' psi	. & 660' FEL) of Sec	tion 25		Sec. 25-368-23	- CASE
PERMIT NO.	15. ELEVATIONS (SI	ow whether DF, RT, GR, etc.)			TATE
Arizona Ho. 421					T. C. S. C.
s	Check Appropriate Box To	Indicate Nature of I			
NOT	ICE OF INTENTION TO:		isava T	QUENT REPORT OF:	
TEST WATER SHUT-OFF	PULL OR ALTER CASI	"" 	ER SECT-OFF	REPAIRING WELL	- TET
FRACTURE TREAT	MULTIPLE COMPLETE	i	OTING OR ACIDIZING	ABANDONMENT*	
SHOOT OR ACIDIZE	ABANDON*	[}	Suppleme	stal Well Mistory	. 1
REPAIR WELL (Other)	CHANGE PLANS	'0"	/Money Papart Port	lts of multiple completion on appletion Report and Log form.)	Men
		th 75 sacks cen	ent. Drilled	count and disass	d out
collars. Here	bbed back water, no a tubing and set pa ate of 50 MCFFD. O	show of gas. cher at 3395'. ver night shut	Pulled tubing Continued sw in pressure 4	said late som eri abbing, made some OOf, blod off quic	ij.
collers. Here estimated at respected performent and clear 1 SPF. 3448-63 Maximum pressurant in State	bled back water, no n tubing and set pa ate of 50 MCFFD. O rations 3407-63' wi aned out to 3500'. ', no gas. Frecture are 4,000\$, minimum and and flowed for	show of gas. cher at 3395'. ver night shut th an additiona Swabbed hole d ad with 17,050 pressure 3,500 several days.	Pulled tubing Continued swin pressure 4 1 50 sacks coom, no show gallons crude , well on was Recovered 83	and laid down dri whing, make some out, bled off quic ment. Drilled out of gas. Perforate and 12,500 mend. cum after 10 minut barrels of load of	A present of the second
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to 3449'. Swall collars. Here estimated at respected performent and clearent and clearent and clearent and clearent in. Swall shut in. Swall swa	bled back water, no n tubing and set parties 3407-63' wi made out to 3500'. I', no gas. Fracture 4,000\$, minimum had and flowed for fit to recover. Cas approximately 150 MC shut in period, tubest periodically.	show of gas. sher at 3395'. wer night shut th an additiona Subbed hole d ed with 17,050 pressure 3,500 pressure 3,500 several days. secsured 398 h FPD at end of p sing pressure b	Pulled tubing Continued swin pressure in pressure in 150 sacks coom, no show gallons crude, well on war Recovered 83 CFFB at begin priod. Shut	and laid down drimbing, made some cof, blod off quick ment. Drilled out of gas. Perforete and 12,500 send. The same sell in on 1,21-6 resource 15%, William 1,21-6	The state of the s
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collars. Here collars. Here estimated at r Squeezed perfo cement and cle 1 SPF. 3448-63 Maximum pressu shut im. Such 323 berrels is decreased to a After 24 bour continue to to	bed back water, no n tubing and set parties 3407-63' wi aned out to 3500'. ', no gas. Fracture 4,000', minimum had and flowed for approximately 150 Minimum to period, tubing parties and correct periodically.	show of gas. cher at 3395'. ver night sixt th an additiona Susbbed hole d ed with 17,050 pressure 3,500 several days. secsured 398 h FFD at end of p ing pressure b)	Pulled tubing Continued swin pressure in pressure in 150 sacks on the common show gallons crude, well on was secovered 83 KFFD at beging priod. Shut	and laid down drimbing, made some cof, blod off quick ment. Drilled out of gas. Perforete and 12,500 send. The same sell in on 1,21-6 resource 15%, William 1,21-6	The state of the s

		Budget	Bureau	i No.	42-R3	56.5
AND	OFFICE					· **

LESSEE'S MONTHLY REPORT OF OPERATIONS

State_	Ard	EODE		Co	unty	A	pache	Fie	ld Di	seh bi Kej	rah
Th	re follo	wing	is a	correc	t rep	ort of	operati	ons and pro	duction (i	ncluding d	rilling and producing
Acent'	s addre	388	P. 0	. Box	120				mpany 🖪	more cir	a merining company
			Denv	er, C	olore	do 80	201	Sig	ned		en en en en en en en en en en en en en e
Phone			53 4-	1251				Ag	ent's title		
SEC. AND M OF M	TWP.	RANGE	WEIL No.	DATS PRODUCED	BARRE	as of On	GRAVITY	Cu. Fr. or Gas (In thousands)	Gallons of Gasoline Recovered	BARRETS OF WAYDE (If none, so state)	REMARKS (If drilling, depth; if shut down, sause) date and result of test for gasoline content of gas)
avajo te	ect 8	3 - 1	RIZO	esa pe	MIT	108.	421 B	447			
Sec. 25 SE SE		298	1	0		0		-	rest	ito?	Hell shut in after testing on 4-21-68.
									The state of the s		No further testing has been done. See Sundry Notice dated 5-9-68.
Sec. 25 S2 IM	361	298	4	0		0					Operations suspended as of 3-5-68. See Sundry Motice dated
											3-11-68. No work has been done since this date.
										611	118/10
										41 15/1	
ee: 2 ·	- Arii - Min	rale	Odl Sup	A Gas ervis	Come	ervet: Mysj	ion Co Trib	e ission			

M cu. ft. of gas sold; .. runs or sales of oil;

runs or sales of gasoline during the month. (Write "no" where applicable.)

Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

GPO 837-082

LESSEE'S MONTHLY REPORT OF OPERATIONS

,	State	Aris	ona.		Co	unty Apa	che		Fiel	d Dine	h bi Keya	h
	Th	e follo	owing	is a	correc	t report of	operati ch	ons and 19 68	ргос	luction (i1	rcluding d	rilling and producing
	Agent's	nddr.	ess 1	P. O.	Box	120			Con	ipany His	pple 011	F Heliuing Combana
	:. :]	e pas	r, Co	lorado 802	01.		Sign	ied	PY (Signed)	. RUT DURROUGH
	Phone			34-)	1251				Age	nt's title .	Dist. S	upt.
	SEC. AND M OF M	Twp.	RANGE	WELL No.	Days Paoduced	Barrels of Oil	GRAVITY	Cu. Fr. or (In thousa	GAB inds)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if abut down, cause; date and result of test for gasoline content of gas)
MAY	AJO TI	CT (8] 				·			
	c. 25 SE	361 #- 42	29%	1	1	41	appea	r on t	he O	will no clahoma Bos. 2	city	Pulled tubing & packer Squeezed perfs 3407- 63' with 75 sacks cement. Testing squeeze job. Will perforate 3448-63' &
	e. 36	361	298	3	Prod	inction will Office on	l be :	reporte report	d by	our Okl	ahona.	test.
	e. 25	361	298	4								Operations suspended as of 3-5-68. See
	c: 2	44	HT	ot 1	Gos	Conservat	ion C	maissi	Ç a	COMS COM	B RECEIVED	Sundry Notice dated 3-11-68. No work has been done since that date.
1	1	_		T	orvis	1	Trib		·		سيبشب	

There were ______ runs or sales of oil; __ M cu. ft. of gas sold; runs or sales of gasoline during the month. (Write "no" where applicable.)

Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329

(January 1950)

892-556

U.S. GEVERNIENT PRINTING OFFICE 1964-0-729-784

ederal, State or Indian Lease Number,	Field		Reservoir
- larcan'e nama if fab lanco	i	Dineh bi Keyah	h Hermosa
yajo Tract 88 - 14-20-060 urvey or Sec-Twp-Rge	1-0012 County	Dinen of Welds	State
ec. 25 & <u>36-36N-29E - G&SI</u>	RM A	pache	Arizona
perator & 30-3011-29E - Gast	.04_12		
numble Oil & Refining Comp	any		
ADDR	ESS ALL CORRE	SPONDENCE CONCER	RNING THIS FORM TO:
tree:	City		State
o. 0. Box 120	Den	ver,	Colorado 80201
Above named operator authorizes (name of	transporter)		
Gerr-McGee Pipeline Corpor			
Fransporter's street address	City		State
Kerr-McGee Building	Oklah	oma City	Oklahoma 73102
Field address			
P. O. Box 989, Farmington,	New Mexico	87401	
, v. b. j., i	Oil, con	densate, gas well gas, c	easinghead gas
To transport 100	% of the		from said lease.
OTHER GAT	THERERS TRANS	PORTING FROM THI	S LEASE ARE AS FOLLOWS:
Name of gatherer		% transported	Product transported
None		}	
HORC			
		_	
		de comos Di	lease change your records as follows:
Permian Corporation cease at which time the IACT on from Well #3 (As Humble A	d hauling of the lease gent Only)	went into oper to our Navajo	indicate whether or not it is a change of operator, change of give effective date of change. o Tract 88 #2 as of 5:55 FM on 2-28-68, ration. Permian continued to haul oil Tract 138 battery, where it went into hat time all production from the Navajo ooked to the Navajo Tract 88 battery.
The undersigned certifies that the rules an	d regulations of t ease, except as no duced from the a	he State of Arizona O ted above, and that th bove described proper	oil & Gas Conservation Commission have been complied with the above transporter is authorized to transport the above specificity, and that this authorization will be valid until further not
CERTIFICATE: I, the undersigned, under	the penalty of pe	riury, state that I am i	the Dist. Supt. of
	TIL BANKERS OF De	-,,,	
Humble Oil & Refining Com			am authorized by said company to make this report; and that t

March 20, 1968

Date approved:

30

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3-22-68

STATE OF ARIZONA
OIL A GAS CONSERVATION COMMISSION

cc: Minerals Supervisor, Navajo Tribe U. S. Geological Survey - Farmington

Form No. 8

J. Roy Dorrough

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

Operator's Certificate of Compliance & Authorization to Transport Oil or Gas from Lease File Two Copies

HORIZATION LIANCE AND 'S CERTIFICATE OF TO TRANSPORT OIL OR GAS FROM LEASE Reservoir Field Federal, State or Indian Lease Number, or lessur's name if fee lesse Hermosa Navajo Tract 88 - 14-20-0603-8812 <u>Dineh bi Keyah</u> Survey or Sec-Twp-Rge Arizona Sec. 25-36N-29E - G&SRM Apache Operator Humble Oil & Refining Company ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO: Street Colorado 80201 Denver, P. O. Box 120 Above named operator authorizes (name of transporter) Kerr-McGee Pipeline Corporation (No change - See Belew) State Transporter's street address Oklahoma 73102 Oklahoma City Kerr-McGee Building Field address P. O. Box 989, Farmington, New Mexico 87401 Oil, condensate, gas well gas, casinghead gas from said lease. 011 100 % of the To transport OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS: % transported Name of gatherer None Indicate whether or not this certificate is for a new lease. If not a new lease, indicate whether or not it is a change of operator, change of lease name, change of gatherer, or a consolidation or subdivision of leases and give effective date of change. This is to advise of a change of method in moving oil from the above lease. IACT equipment has been installed and pipeline connection made with Kerr-McGee Pipeline. The Permian Corporation will no longer haul the oil (As Humble Agent Only) as stated in our certificate dated 11-22-67. IACT operation began at 5:55 PM on 2-28-68. The undersigned certifies that the rules and regulations of the State of Arizona Oil & Gas Conservation Commission have been complied with in drilling and producing operations on this lease, except as noted above, and that the above transporter is authorized to transport the above specified percentage of the allowable oil or gas produced from the above described property, and that this authorization will be valid until further notice or until cancelled by the State of Arizona Oil & Gas Conservation Commission. Dist. Supt.

report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Form No. 8

(company), and that I am authorized by said company to make this report; and that this

J. Roy Dorrough

STATE OF ARIZON

Operator's Certificate of Compliance & Author Transport Oil or Gas from Lease

File Two Copies

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the

STATE OF ARIZONA OIL & GAS CONSURVATION COMMISSION

cc: Minerals Supervisor, Navajo Tribe

Humble Oil & Refining Company

16

March 4,

Date approved

Harold Farris - Humble - Phone 2-22-68

flowing 200 BOPD - not completed
making 1.000 MCF gas (Non-flomable)

paying trucking chap of 32¢ perbol

pipeline chap of 25¢ "

must keep cat (for trucks) 1800 perm.

88-4 (#447)

will set bridge plug at 4360'

perf. at 4286' to 4322' w I shatea 2'

1000 gul mud acid

fracked 43.300 gal oil, 40.000 lbs band

Swubbing 7 to 8 BOPD thru 3" tubing

700 Bbls of Oil (frack) to recover

making 5 to 7 BOPD

will shut-in and wait on orders

e

O

	Budge	Bures	Mo.	42-R358.5.
ICE	2-1	·	. 725	בינטט.

LAND OFFI LEASE NUMBER 14-20-0603-8812

LESSEE'S MONTHLY REPORT OF OPERATIONS

	State	Arizo	ona.		Coi	unty App	ache	Fiel	d Dinen	COT DEAG	the sand producing
	The	follo	นท่างดี	is a	correct	t report of a	perati	ons and prod	luction (in	cluding a	rilling and producing
	wells) fo	r the	mont	h of	ም ረን	hmiami		<i>19</i> bo			
	Agent's								ipany HW	JUDA Adusiesi, JUDIE ATT	& Refining Company
•			·		De	nver, Colo	rado	30 <u>201</u> Sign	ed	VI (Signed)	J. ROY DORROUGH
	Phone.	.			53	4-1251		Age	nt's title 1		Superintendent REMARKS
	SEC. AND	Twe.	RANGE	WELL No.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	Cv. Ft. of GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	(If drilling, depth if abut down, cause: date and result of test for gasoline content of gas)
NAV	AJO TR	CT 8	8						-	1	
Sec	25 SE	36N		1	18	131	on t	production the Oklahom #2 & #3.	will no City Re	t appear	Pump testing periodically.
	e. 36 NE	36N	291	3	1,13		Okla	hetion will homa City Well #2.	be repo	orted by	port rates from 34 to 364 BOPD & gas at estimated rate of 1100 MCFFD.
	ec. 25 I NW	361	29	8 4	147						Perforated, acidized and fractured 4373-4420'. Recovered no oil and small amount of gas.
			emplomentary and the second se								Perforated, acidized and fractured 4286-4322'. Recovered no oil and small amount of gas.
, c	c: 2 -	Ar1	zopa	011 Sup	& Ges ervis	Conservat or, Navajo	Tribe	mmission			
		V	arok.	Amplicate				i i			
:	N	отЕ.—		8 7 TE	See	Above	of angoli	ns or sales of oil	onth. (Writ	e "no" where	M cu. ft. of gas sold; applicable.)

Note.—Report duplicate with the supe 's form is required for each calendar month, regardless of the status of operations, and must be filed in or by the 6th of the succeeding month, unless otherwise directed by the supervisor.

U.S. GOVERNMENT PRINTING OFFICE 1964- O-729-784 892-556

S CHARAGE

	er Can	DRY NOTICES A	ND REPORTS (ON WELL		
. Name of Operator Hu	mble Oil & Refi	ning Company	·•			
		OTHER [(Specify)			
. Well Name Navajo	Tract 88 Weld 1	No. 1				
Location SE SE (6	60' FSL & 660'	FEL) of Sect	ion 25			
Sec25	_{Twp.} 36N	Rge	29E	County	Apache	., Arizona.
l. Federal, State or Indian	Lease Number, or lesson	's name if fee lease.	14-20-060	3-8812		
					•	
6. Field or Pool Name	Dineh bi Keyah					
6. Check Appropriate Box	to Indicate Nature of No	otice, Report, or Oth	er Data			
NOT	TICE OF INTENTION TO) :		SUBSEQUE	T REPORT OF:	
TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (OTHER)	DIRECTIONAL PERFORATE (CHANGE PLA	L DRILL CASING	WATER SHUT- FRACTURE TE SHOOTING OR (OTHER)	ACIDIZING	MONTHLY PROGRESS REPAIRING WELL ALTERING CASING ABANDONMENT	XX
(021111)				· ·	iple completion on Well Cor Report and Log form.)	npletion

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Recovered remainder of load oil as of 1-1-68. Pumped 17 days and produced 150 barrels of new oil. Average production when pumping continuously was 6 to 7 barrels per day. Was down 14 days for pumping unit repairs.

Signed

Title

Date PRIMER II

OIL & GAS CONSERVATION DIMISSION

Sundry Notices and Resorts of Wals

File Two Copies

Form No. 25

(3

O

telephone 1-2-68 Humble 88-1 Jones 7 B look sil (leaving 30 Bbls. load ail yet to recover)

Form approved. Budget Bureau No.	42-R356.5.
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LEASE NUMBER 14-20-0603-8812

LESSEE'S MONTHLY REPORT OF OPERATIONS

melle) i	for the	mon.	th of	_ 1	December		₁₉ 67		******		rilling and producing A Refining Company
A g ent'	s addr	ess	P. Q.	BOX CO	120 10mado 802	01		Com	pany . 1941 od	RIGINAL 101	& Refining Company
Phone			534-1	L251				Agen	t's title_	Dist. S	ministrative Supr.
SEC. AND	T	RANGE	WELL No.	DATS PRODUCED	Barrels of Oil	GRAVITT	Cw Pe or	GAS	Gallons of Gasoline Recovered	BARRELS OF WATER (II none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gran
Vajo 9	TRACT	88 -	ARI	ZORIA I	EPUT #421						
e. 25 88	36 n	29 E	1								Pumping to recover load oil. Still has small amount to recover.
				39	CONT	D	ENT		A THE		
							*				
						******		ion			STAN STAN STAN STAN STAN STAN STAN STAN
:c: 2	- Ar	a Hez	MA A	Poh	Conserva	exals	Superv.	Lsor,	Havajo	Tribe	CONSE O SOB

Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329 (Jacusry 1980) 9.()

U.S. GOVERNMENT PRINTING OFFICE: 1964--O-729-78

From the Desk of

JOHN BANNISTER

Coving 3437 to 3470

Time from 3437 to 3455
CIDMIN low - 18 min per fort

CIDMIN low - 18 min per fort

CIDMIN low - 30 min low)

Top of -202 3405'

Bollow 3455'

Form approved.
Budget Bureau No. 42-R1424.
5. LEASE DESIGNATION AND SERIAL NO. DEPARTMENT OF THE INTERIOR (Other Instructions verse side) 14-20-0603-8812 GEOLOGICAL SURVEY 6. IF INDIAN, ALLOTTEE OR TRIBE NAME SUNDRY NOTICES AND REPORTS ON WELLS Navajo (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.

Use "APPLICATION FOR PERMIT" for such proposals.) 7. UNIT AGREEMENT NAME OIL WELL GAS OTHER S. FARM OR LEASE NAME 2. NAME OF OPERATOR Mavajo Tract 88 Humble Oil & Refining Company 9. WELL NO. 3. ADDRESS OF OPERATOR LOCATION OF WELL (Report location clearly and in accordance See also space 17 below.) P. O. Box 120, Denver, Colorado 80201 10. FIELD AND POOL, OR WILDCAT Dineh bi Keyah 11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA SE SE (660' FSL & 660' FEL) of Section 25. Sec. 25-36N-29E - G&SRM 12. COUNTY OR PARISH | 18. STATE 15. ELEVATIONS (Show whether DF, BT, G 14. PERMIT NO. Arizona 8175' KB & 8166' GL 421 - Arizona Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data 16. SUBSEQUENT REPORT OF: NOTICE OF INTENTION TO: REPAIRING WELL WATER SHOT-OFF TEST WATER SHUT-OFF PULL OR ALTER CASING ALTERING CASING PRACTURE TREATMENT FRACTURE TREAT SHOOTING OR ACIDIZING ABANDON* SHOOT OR ACIDIZE (Other)Supplemental Well History CHANGE PLANS (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) REPAIR WELL 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)* Summary of operations through 9-29-67 reported on Sundry Notice dated 10-3-67. The following is a summary of operations from that date through 11-30-67. Ran 24 hour pressure buildup, SIP at 3420' was 636 psi initial & final. Moved in unit, killed well with salt water. Released packer at 3359' and pulled same. Ran and set Lynes packer 3428-50'. While swabbing fluid from tubing, annulus kicked off flowing gas. Shut in annulus. Continued swabbing tubing and SIP on annulus was 600#. Flowed tubing for 10 minutes and annulus pressure dropped 200#. Flow tested through tubing for 32 hours, 1" choke, at rate of 2400 MCFPD, CP 300#, TP 200#, now show of cil. Tested through casing annulus for 22 hours at rate of 2522 MCFPD, CP 250#, TP 250#, no show of oil. Shut in overnight - SITP 550#, SICP 610#. Killed well and pulled Lynes packer. Set packer at 3311' with tailpipe at 3439'. Flowed for a 3 week period from 10-15-67 through 11-3-67. Tubing pressure at beginning of test 350 and decreased to 219 for the last 8 days of the test period. Accumulated gas for the period amounted to 37,393 MCF, for an average of 1780 MCFPD. However, some chart volumes were not for a full 24 hour period. Largest 24 hour volume was 2030 MCF on 38/64" choke with tubing pressure of 225#. Drilled out bridge plug at 3550', cleaned up hole to 3800'. Ren 2-3/8" OD tubing with perforated mud anchor set at 3765'. Ran rods and pump. Set pumping unit and started pumping on 11-24-67, recovering load oil at a rate of 10 barrels per day average. As of 12-1-67 still recovering load oil with 109 barrels left to recover. cc: 12 - Arizona Oil & Gas Conservation Commission 1 - Mr. Henry F. Pohlmann, Minerals Supervisor, Navajo Tribe.

18. I hereby certify that the foregoing is true and correct TITLE Dist. Supervising Engineer DATE 12-6-67 (This space for Federal or State office use) COMMINITAL TO THE CONTRACT OF CONDITIONS OF APPROVAL, IF ANY:

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	Dutker Divert 140: 41-10000:0
ŧ	LAND OFFICE
	LEASE NUMBER 14-20-0013-0012
	Unit

LESSEE'S MONTHLY REPORT OF OPERATIONS

wells) fo Agent's	or the addr		P. 0	. Box	120		Cor	npany H	V ORIGINAL	Lefining Company John F. Richardson
Phone			534-	1251			Age	ent's title	Mat.Supe	rvising Engineer
SEC. AND 14 OF 14		RANGE	West	Dats Paoducko	Barreis of Oil	GRAVITY	Cu. Fr. of Gas (In thousands)	GALLONS OF GASOLINE RECOVERED	BARREIS OF WATER (II none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
vajo tr	ACT	88 -	ARIZ	ONA P	ermit kos.	421 a	431			
ec. 25 5 SE	36 1	298	1	<u> </u>	<i>38</i>					Pumping to recover
ec. 25	ì	None en	1.490				.			Completed as an o
e ne	361	29E	2	PLOGO	etion repo	office.	l be furni	sued by	WITE .	well on 11-28-67.
					CO	NE	DEN	TAI	4	
:c: 2 -	Ari	span	011	S Gas	Conserva	ion C	maission Supervisor,			

runs or sales of gasoline during the month. (Write "no" where applicable.)

Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329

892-556

U.S. GOVERNMENT PERKING OFFICE: 1954—O-729-784

CERTIFICATE OF LIANCE AND NOITAZIRO TO TRANSPORT OIL OR GAS FROM LEASE Federal, State or Indian Lease Number.
Navajo Tract 88 leas 14-20-0603-8812 Reservoir Dineh bi Keyah Hermosa Survey or Sec-Twp-Rge County State Sec. 25-36N-29E - G&SRM Apache Arizona Humble Oil & Refining Company ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO: Street P. O. Box 120 Colorado 80201 Above named operator authorizes (name of transporter) Kerr-McGee Pipe Line Corporation Transporter's street address Kerr-McGee Building Oklahoma City Oklahoma 73102 Field address P. O. Box 989, Barmington, New Mexico 87401 Oil, condensate, gas well gas, casinghead gas 100 To transport % of the 011from said lease. OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS: Name of gatherer % transported Product transported None Indicate whether or not this certificate is for a new lease. If not a new lease, indicate whether or not it is a change of operator, change of lease name, change of gatherer, or a consolidation or subdivision of leases and give effective date of change.

Change of transporter from Permian Corp. to Kerr-McGee Pipeline Corp. Oil will be hauled by the Permian Corp. (As Humble Agent Only) from this lease to the Humble Navajo Tract 138 tank battery location where a pipeline connection is now available. This will be only a temporary situation until a pipeline can be laid from Navajo Tract 88 tank battery for a permanent pipeline bookup to the Kerr-McGee Pipeline. The undersigned certifies that the rules and regulations of the State of Arizona Oil & Gas Conservation Commission have been complied with indirection and producing operations on this lease, except as noted above, and that the above transporter is authorized to transport the above specified percentage of the allowable oil or gas produced from the above described property, and that this authorization will be valid until further notice or until cancelled by the State of Arizona Oil & Gas Conservation Commission. CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the District Supervising Engineer (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge. November 22, 1967 Date John F. Richardson STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION

OIL & GAS CONSERVAT

Form No. 8

Operator's Certificate of Compliance Transport Oil or Gas Gron

File Two Copies

29

421 & 431

Mr. Henry F. Pohlmann, Minerals Supr.,

Navajo Tribe

lessor's name if fee lease	1	_	ļ	Reservoir
io Tract 88 - 14-20-0603-88		eh Bi Keyah		Hermosa
rvey or Sec-Twp-Rge	County	. 1		State Arizona
ec. 25-36N-29E - G&SRM	Ap	ache	1	AI IZOIX
erator				
Humble Oil & Refining Compa	iny	SPONDENCE CONCER	NINC THE	COPM TO
ADDRES		SPONDENCE CONCER	INING THIS P	State
reet	City			Colorado 80201
P. O. Box 120	Denv	er,		Variation 1
pove named operator authorizes (name of tra	ansporter)			
he Permian Corporation				State
ansporter's street address	City	- nd		Texas 79764
. 0. Box 3119	Midle	and		1 101-171-
eld address				
armington, New Mexico				
	Oil, cone	iensate, gas well gas, c	asingnead gas	
100	en - 2 kb	Oil		from said lease.
transport 100	% of the		~	A A C POLI OWC.
OTHER GATH	ERERS TRANS	PORTING FROM THI		
ame of gatherer		% transported	Product tra	nsported
None				
		<u> </u>	1	
				
			1	
		ļ	- 	
- 				
		<u> </u>		
ndicate whether or not this certificate is fo	or a new lease.	If not a new lease,	indicate whetl	ier or not it is a change of operator, chang date of change.
ndicate whether or not this certificate is for ease name, change of gatherer, or a consol	or a new lease. Iidation or subt	If not a new lease. division of leases and	give effective	ner or not it is a change of operator, chan date of change. Corporation as indicated metar setup until permanent

The undersigned certifies that the rules and regulations of the State of Arizona Oil & Gas Conservation Commission have been complied with in drilling and producing operations on this lease, except as noted above, and that the above transporter is authorized to transport the above specified percentage of the allowable oil or gas produced from the above described property, and that this authorization will be valid until further notice or until cancelled by the State of Arizona Oil & Gas Conservation Commission. CERTIFICATE: I. the undersigned, under the penalty of perjury, state that I am the District Supervising Engineer Humble Oil & Refining Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge. John F. Richardson Signatur CONS One STATE OF ARIZONA
One of Conservation Commission
Operator Carincale of Compliance & Authorization to
Fransport Oil or Gas from Lease cc: Mr. Henry F. Pohlmann, Minerals Supr., File Two Copies Form No. 8

Date

Date approved:

Permit No.

November 13, 1967

421 & 431

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

Navajo Tribe.

(P

•						
• (CERTIFICA	TE FOR LOA	AD OIL CRED	IT AND		
	PERMIT TO T				IL	
Operator Humble Oil & Refining Com	nanv		Address P. O. Box	120, 1	enver,	Colorado 80201
rederal, State or Indian Lease Number. or lessor's name it fee lease, a jo Tract 88 - 14-20-0603. Location	Well No.	Field and				County Apache Sec-Twp-Rge or Block & Sur
Sec. 25-36N-29E - G&SRM						
	1200	Barrels load o	oil recovered			
Oil was purchased from* Navajo Tract 138 Well #1			Address Sec. 6-35	N-30E,		County, Arizona
						Date purchased -9-67 thru 9-21-67
Oil from the lease and well first above de	scribed is gathere	ed and transpo	rted by:			
	JJJ.	112111	>			
	or the negative	NOV LA 196 S. COMM.	e that I am the	Distric	t Super	vis è ng Engineer
CERTIFICATE: I. the undersigned, und Humble Oil & Refining Co report was prepared under my supervision	mcanv	(d that I am auth	are ful, co	aid compan profit and cr	y to make this report; and the complete to the best of my know that the best of my know that the chardson

Form No. 17

421

30c: Mr. Henry F. Pohlmann, Minerals Supr., Navajo Tribe.

MOITAZINC CERTIFICATE OF & LIANCE AND TO TRANSPORT OIL OR GAS FROM LEASE Federal. State or Indian Lease Number. Find the lease or lessor's name if fee lease avajo Tract 88 - 14-20-0603-8812 Field <u>Hermosa</u> <u>Dineh bi Keyah</u> State County Survey or Sec-Twp-Rge Arizona Sec. 25-36N-29E - G&SRM Apache Humble Oil & Refining Company ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO: Dolorado 80201 P. O. Box 120 Denver Above named operator authorizes (name of transporter) Kerr-McGee Pipe Line Corporation Transporter's street address Oklahoma 73102 Oklahoma City, Kerr-McGee Building Field address P. O. Box 989, Farmington, New Mexico 87401 Oil, condensate, gas well gas, casinghead gas from said lease. 100 Oil % of the To transport OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS: Product transported Name of gatherer None Indicate whether or not this certificate is for a new lease. If not a new lease, indicate whether or not it is a change of operator, change of lease name, change of gatherer, or a consolidation or subdivision of leases and give effective date of change.

New Well, Navajo Tract 88 Well #2. The Permian Corporation will truck the oil (As Humble) Agent Only) from Well #2 to the Humble Navajo Tract 138 tank battery where a pipeline connection is now available. This will be only a temporary situation until a tank battery & pipeline can be laid for permanent pipeline hookup. The undersigned certifies that the rules and regulations of the State of Arizona Oil & Gas Conservation Commission have been complied with in drilling and producing operations on this lease, except as noted above, and that the above transporter is authorized to transport the above specified percentage of the allowable oil or gas produced from the above described property, and that this authorization will be valid until further notice or until cancelled by the State of Arizona Oil & Gas Conservation Commission. Dist. Supt. CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the (company), and that I am authorized by said company to make this report; and that this Humble Oil & Refining Company report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge. November 6, 1967 J. Roy Dorrough Date Date approved STATE OF ARIZONA & GAS CONSERVATION COMMISSION

cc: Mr. Henry F. Pohlmann, Minerals Supr., Navajo Tribe. 33 421 + 431 Form No. 8

421

STATE OF ARIZON OIL & GAS CONSERVATION COM Operator's Certificate of Compliance & Authoriz-Transport Oil or Gas from Lease

File Two Copies

22.00 delat/19

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CERTIFICATE FOR LOA PERMIT TO TRANSPORT		ı.
Operator Humble Oil & Refining Company Federal, State or Indian Lease Number, Well No. Field and		Denver, Colorado 80201
or lessor's name if fee lease. a jo Tract 88 - 14-20-0603-8812 #1 Di. Location Sec. 25-36N-29E - G&SRM	neh bi Keyah	Apache Sec-Twp-Rge or Block & Survey
1200 Barrels load	oil recovered	
Oil was purchased from* Navajo Tract 138 #1 Oil from the lease and well first above described is gathered and transpo		Apache County, Arizona Date purchased 9-9-67 thru 9-21-67
on from the lease and well first above described is gathered and transported and transport gent Only) to Navajo Tract 138 battery where This report will certify that the number of barrels of load oil, show that this load oil was purchased from the named firm (or lease), and parrels of oil by the gatherer and transporter.	. Vell-wedeelfber	the corp. with oranspore one
CERTIFICATE: I, the undersigned, under the penalty of perjury, state	e that I am the Dis	t. Supt. of the
Humble Oil & Refining Company (company) and report was prepared under my supervision and direction and that the fac	d that I am authorized by sa	aid company to make this report; and that this rect and complete to the best of my knowledge.
	Signature J. Bo	by Dorrough -67
Note: This report required only when load oil was obtained from a source other than the lease on which used. *Insert lease name, location and pool if oil supplied from a lease.	- 1	STATE OF ANGRONA
Date Approved 11-7-67 STATE OF ARIZONA	Cert	ificate for Load III and Fernis to
OIL & GAS CONSERVATION COMMISSION By: January Commission		File Two copies
1 //	Form No. 17	617-111

O

REPORT OF ANALYSIS CAL. PRES. 63.6 N.S. N-35966 ,H 2.76 DBS. PRES. 64.2 11205 APACHE COUNTY-.ARIZONA WELL NAME NAVAJO TRACT 88 MO. 1 DIMEH BI KEYAH HUMBLE OIL + REFINING CO. OWNER-LOCATION- SEC. 25, T36N, R29E DATE SAMPLED-DST 11-03-67 DATE COMPLETED-H. B. HIGHLAND SAMPLED BY-NAME OF PRODUCING FORMATION-THICKNESS IN FEET-

OPEN FLOW, MCF/D-

THE HELL DATA ARE ACCURATE.

REMARKS-

DEPTH IN FEET-

3407

SHUT IN WELLHEAD PRES. PSIG- 625

STATE

FIELD-

0.0 % ANALYSIS-OXYGEN NORMAL PENTANE 23.3 % HETHANE .6 % ARGON ..2 % ISOPENTANE 3.9 % .1 . % ETHANE HYDROGEN CYCLOPENTANE 2.0 % PROPANE 0.0 % H2S .1 % HEXANES PLUS .7 % NORMAL SUTANE .1 % COZ NITROGEN ISOBUTANE 4.57% HELIUM .874 SPECIFIC GRAV 99.9 %

CALCULATED GROSS BTU/CU FT, DRY AT 60 DEG F AND 30 IN. MERCURY-414.

PERMISSION IS HEREBY GRANTED FOR THE BUREAU OF MINES TO RELEASE THE ABOVE DATA, TOGETHER WITH SIMILAR DATA RELEASED BY OTHER OPERATORS AS PUBLIC INFORMATION AND AS PARTS OF A SERIES OF PAPERS ON ANALYSES OF GASES FROM VARIOUS FIELDS. STATES. OR REGIONS.

COMPANY Humble Oil Refining Company

J. Roy Dorrough TITLE District Surerintendent Denver, Colorado

10

LESSEE'S MONTHLY REPORT OF OPERATIONS

wells) fo A g ent's	r the addr	mon ess _P.	th of . O. envel	Box l	Octobe 20 orado 8020) <u>1</u>	, 19_67, Con Sign Age	npany h	mble 011/ h. Superisor	REMARKS (Il drilling, depth; if shut down, cause:
SEC. AND MOT M		RANGE		DATE PRODUCED	BARRELS OF OIL	GRAVITI	(In thousands)	GASOLINE RECOVERED	WATER (II none, so state)	date and result of test for gasoline content of gasi
SE SE Sec. 25 SE SE Sec. 25		29E	29		Co.	NF	DEN	TIAI		TD 3850', PBTD 3550'. Testing interval of 3407-63'. Flowing at an average rate of 1900 MCFPD. TD 4814', PBTD 4774'. Tested interval of 4626-86' at a rate of 1150 MCFPD. How running pressure buildup.
cc:	2 - 1	Arlzo Kr. !	na O	MI &	Gas Conser ohlmann, M	va tion ineral	Commissio	37.77	TELL	9 (10)

Note.—There were ______ runs or sales of oii; ______

runs or sales of gasoline during the month. (Write "no" where applicable.)

Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

U.S. GOVERNMENT PRINTING OFFICE: 1964-O-729-784 892-556

NAVAJO TRACT 83 #1
COMPLETION SUMMARY & CORE RECORD

CORE $\frac{2}{\pi}1 - 3437-3497'$. Recovered 60'. $23\frac{1}{2}$ ' Igneous sill, pale green, white. $36\frac{1}{2}$ ' limestone, medium grey, pale green and tan grey.

CORE $\#2 - 3\frac{1}{2}97-3557$. Recovered 60'. 60' limestone, grey, purple.

CORE #3 - 3557-3600'. Recovered 43'. 20' limestone, dark grey, black. 23' shale,

grey.

The second

CORE #4 - 3600-3660'. Recovered 60'. 4' shale, grey. 22' limestone, grey, tan.
10' shale, reddish brown, green. 21' limestone, tan, buff. 1' shale, grey, grey-green. 2' limestone, tan.

CORE #5 - 3776-3786'. Recovered 10'. 2' limestone, tan. 8' shale, purple.

SUMMARY OF COMPLETION TO 9-30-67. Drilled to TD of 3850'. Ran 88 joints of 7" OD N-80 casing and set at 3844'. Cemented with 85 sacks Pozmix S Class C cement with 2% gel and 25# gilsonite per sack and 65 sacks Class C cement with 6% gel. Followed with 1000 gallons MSA and fresh water. Bumped plug with 800#, good returns throughout. Job completed 9-5-67. Top of cement by temperature survey 2750'.

Moved in completion rig on 9-10-67. Perforated 1 SPF, 3734-54. Displaced Acetic Acid with 20 barrels fresh water, max. press. $2000_{\#}^{\#}$, min. press. $500_{\#}^{\#}$. Let acid soak 20 minutes, press. broke from $2000_{\#}^{\#}$ to $500_{\#}^{\#}$, injection rate 2 BPM. Ran $3\frac{1}{2}^{\#}$ tubing with retrievomatic packer and 8' of tail pipe. Set packer at 3700'. Swabbed back water and shut in over nite. Tubing press. next AM $25\frac{\pi}{\pi}$, had 500' of fluid in hole. Swabbed to packer, recovered $\frac{1}{2}$ BO and acid water. Swabbed 8 hours, recovered $\frac{1}{2}$ BO, no water. Oil had red to brown volor. Shut in over nite. Tubing press. next AM $\frac{1}{20\frac{\pi}{\pi}}$, $\frac{1}{100^{\circ}}$ fluid in hole. Swabbed to packer at 3700', all oil, no water, corrected gravity $\frac{3}{200^{\circ}}$.

Fractured perforations with 12000 gallons crude with 20# Adomite per 1000 gallons plus 12500# of 10-20 sand. Average injection rate 26 BHM. Max. avg. press. 3800#, instant shut in press. 1500#, 2 hour shut in press. 820#. Checked for sand fill-up, all perforations clear of sand. After over nite shut in tubing press. 20#, 500' fluid in hole. Swabbed for four days and recovered 155 barrels load oil. Pulled tubing and cleaned out sand from 3710-3768'. Reran tubing and continued swabbing. Recovered 34 parrels load oil in two days. Max. tubing pressure 25#. Ran pressure buildup test. Set Cast Iron Bridge Plug at 3550' and pressure tested to 2500#, held OK.

Spotted 1000 gallons Acetic Acid on bottom. Perforated 3407-63' with 1 SPF. Ran tubing, set packer at 3380', pumped in acid. Swabbed back acid water, well made small amount of gas. Well flowed, making 700 MCFPD, would not burn without a flame in the flow tester. Treated with 1500 gallons mud acid, swabbed and well kicked off, flowing at rate of 2594 MCFPD with orifice well tester. Tested two days with maximum rate of 2900 MCFPD. Ran 24 hour pressure build-up test.

Set choke plug in packer, moved packer to 3435'. Checked for communication around packer - had communication. Moved to 3445' - had communication. Moved to 3474', below perforations, held OK. Moved to 3450' and had communication around packer. Tubing pressure 610#, casing pressure 610#. Flowed at rate of 2738 MCFPD, tubing press. 200#, casing press. 400#. Packer reset at 3359' (above perforations).

Shut down temporarily, 12:00 noon 9-29-67, awaiting the completion of drilling and testing of Navajo Tract 88 #2.

921

CONFIDENTIAL

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7,5

DEPARTMENT OF THE INTERIOR verse side) Form approved. Budget Bureau No. 42-R1424. 5. LEASE DESIGNATION AND SERIAL NO. 14-20-0603-8812 6. IF INDIAN, ALLOTTEE OR TRIBE NAME GEOLOGICAL SURVEY SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.

Use "APPLICATION FOR PERMIT—" for such proposals.) Bavajo 7. UNIT AGREEMENT NAME MELL MELL GYZ OTHER 8. FARM OR LEASE NAME 2. NAME OF OFERATOR Mavajo Tract 88 Humble Oil & Refining Company 9. WELL NO. 3. ADDRESS OF OPERATOR P. O. Box 120, Denver, Colorado 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.

See also space 17 below.)

At surface 10. FIELD AND POOL, OR WILDCAT Dinch bi Keyah 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SE SE (660' FSL & 660' FEL) of Section 25 Sec. 25-36H-29E - QASIN 12. COUNTY OR PARISH | 13. STATE 15. ELEVATIONS (Show whether of, ET, OR, etc.) 8175' XB & 8166 GL Arizona #421 Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data 16. SUBSEQUENT REPORT OF: REPAIRING WELL. PULL OR ALTER CASING ALTERING CASING FRACTURE TREATMENT MULTIPLE COMPLETE SHOOTING OR ACIDIZING ABANDON* SHOOT OR ACIDIZE (Other) Well Ristory to date
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) CHANGE PLANS REPAIR WELL 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

See attached summary of Cores and completion work.

CONFIDENTIAL



cc:	2 - Arisona Oi	l & Ges Conservation	a Comission.
_	1 - Mr. Henry	F. Pohlmenn, Minera	ls Supr., Havajo Tribe

18. I hereby certify that the foregoing is true and correct		10-3-47
SIGNED COPY (Original) J. ROY DORROUGH	TITLE Dist. Supt.	DATE
(This space for Federal or State office use)		DÂTE
APPROVED BY	TITLE	

*See Instructions on Reverse Side

36

	01 STUB TION TION TO SO O O O O O O O O O O O O O O O O O
CORE LABORATORIES, INC. CORE LABORATORIES, INC. COUNTY ADADE BY KEYAH OCATION SEC. 25-T36N-R29E STATE ARIZONA CORE.GAMMA SURFACE 106 CORE.GAMMA SURFACE 106 CORE.GAMMA SURFACE 106 CORE.GAMMA SURFACE 106 CORE.GAMMA SURFACE 106 CORE.GAMMA SURFACE 106 CORE.GAMMA SURFACE 106 CORE.GAMMA SURFACE 106 CORE.GAMMA SURFACE 106 CORE.GAMMA SURFACE 106	100 50 10 \$ 1

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Form approved. Budget Buresu No. 42-R\$58.5.
LAND OFFICE 14-20-0603-6612
LEASE NUMBER
UNIT

Dinch bi Keyah

LESSEE'S MONTHLY REPORT OF OPERATIONS

Otata .	Arizo	one		Cot	Apa unty	che		Field	Dine	h bi Key	8h
The wells) for Agent's	follor the	owing mon Pess De	is a th of 0.	COTTECT Sell Box L	t report of optember of optemb	operati	ons and ; , 19,	prodi 	ed	cluding d CHE OIL CRICINAL IO SIGNED IO CHELLAC	rilling and producing Refining Conjuny OHN R. CROUCH HILLIA CIVE Supr.
Phone -		RANGE	WELL	Dave	Barrels of Oil	1	Cr. Fr. or (ias (GALLONS OF GASOLINE	Barrels of Water (II	REMARKS (If dilling, depth; if shut down, cause; date and result of test for gasoline
HOK TOLAV			No.	PRODUCED OHA P	emit nac		(E) (H) (E)		RECOVERED	none, so state)	content of gas)
1 SE ec. 25	36 n	29	7	O							TD 3850', PHID 3550' Temporatily shut in on 9-29-67 awaiting completion of drill' a testing Well #2.
8 183 ec. 25	36¥	29E	2	0	COZ	FI	DEN	T	IAL		Drilling at 3553'.
					(0)				·		
								÷			
e: 2 1	– Ar – Mr	isona Her	01.1 21.7 F	. Ge	Conserva	tion (Supr.,	on. Kava,	o Tribe	2 •	
 -	1			No	_!		or calor of		No		M cu. ft. of gas sold:

runs or sales of gasoline during the month. (Write "no" where applicable.)

Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329 (January 1950)

892-556

U.S. GOVERNMENT PRINTING OFFICE: 1964--- O-729-784

STREET STREET

THE EXPLANA

CA-20

CORE LABORATORIES. INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

#42

Page No.___

CORE ANALYSIS RESULTS

Compa	HUMBLE OIL	& REFINING C	0	Formation_		SILL		File	RP-3-	
Well_	NAVAJO TRAC	т 88-1		Core Type_		D/C		Date Repo	rt <u>9/1/</u> 6	57
Field_	DINEH BI KE			Drilling Fl		CHEM GEL 8%	DIESEL	Analysts	GRAH!	M
County	151617	State ARIZO	A Elev.	8175 KB		SEC. 25-T36		·		
County	25-36N-29	e sest						-		
	_		Lit	thological .	Abbreviat					\$L1GHTLY-\$L/
EAND-SO SHALE-S LIME-LM	M GHENT-CK	ARMYDHITE-ARMY COMGLOWERATE-CO FOSSILIFEROUS-FO		- BHY MEG - COA	E.FN DIUM-MED LRSE-CIE	CRASTALLIME.XLM GRAIN.GRN GRANULAR.GRNL	GRAY-GY GRAY-GY	LAMINA	RED-PRAC TIOM-LAM ITIC-BTY	VERY-V/ WITH-W/
BAMPLE	DEFTH	PERMEABILITY MILLIDARCYS		PER CE	SATURATION HT PORE TOTAL	-	#A	MPLE DESCRIP		
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11,	3455.1-56.4	0.13*	8.3		91.5	IGN:VERT H				Att & '
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Recd 10-12-73 AZ 0+6 CC.

* MATRIX PERMEABILITY, SAMPLE NOT SUITABLE FOR WHOLE CORE TYPE PERM MEASUREMENT. SERVICE #5-B

These analyses, opinous or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

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REPORT OF ANALYSIS

N-S- N-35296 .H 3.74 OBS- PRES- 62.8

CAL. PRES. 63.2

ARIZONA STATE-

COUNTY-APACHE

NAVAJO TRIBAL 88 NO. 1 WELL NAME-

DINAH-BI-KEYAH FIELD-

OWNER-

HUMBLE OIL + REFINING CO.

LOCATION- SEC. 25, T36N, R29E

DATE COMPLETED-

DATE SAMPLED-

09-26-67

SAMPLED BY-

. B. HIGHLAND

NAME OF PRODUCING FORMATION- .

THICKNESS IN FEET-

DEPTH IN FEET- . 3407

SHUT IN WELLHEAD PRES .. PSIG- 620

OPEN FLOW, MCF/D-

CHECK OF DATA-THE WELL DATA ARE ACCURATE.

REMARKS-

ANALYSIS-0.0 3 DXYGEN NORMAL PENTANE METHANE .6 % ARGON ISOPENTANE 3.8 % ETHANE .1 % HYDROGEN TRACEZ. CYCLOPENTANE 2.2 % PROPANE 0.0 % H2S HEXANES PLUS NORMAL BUTANE .1 % C02 NITROGEN ISOBUTANE 4.04% HELIUM SPECIFIC GRAV .872 100.0 %

CALCULATED GROSS BTU/CU FT. DRY AT 60 DEG F AND 30 IN. MERCURY-

PERMISSION IS HEREBY GRANTED FOR THE BUREAU OF MINES TO RELEASE THE ABOVE PERMISSION FOR RELEASE-DATA, TOGETHER WITH SIMILAR DATA RELEASED BY OTHER OPERATORS AS PUBLIC INFORMATION AND AS PARTS OF A SERIES OF PAPERS ON ANALYSES OF GASES FROM VARIOUS FIELDS, STATES, OR REGIONS.

COMPANY Humble Oil & Refining Company

J. Roy Dorrough

TITLE District Surerintendent.... Denver, Colorado

1118117

REPORT OF ANALYSIS

CAL. PRES. 56.6 M.S. N-35179 ,H 3.88 DDS. PRES. 57.0 11131

COUNTY-ARIZONA STATE-

APACHE

FIELD-DINEH-B1-KEYAH

NAVAJO TRIBAL 88 NO. 1 WELL NAME-

LOCATION- SEC. 25, T36N, R29E

HUMBLE OIL + REFINING CO. OWNER-

DATE COMPLETED-09-20-67

SILL - This is offersill- Et

DATE SAMPLED-

H. B. HIGHLAND SAMPLED BY-

NAME OF PRODUCING FORMATION- '

DEPTH IN FEET-

THICKNESS IN FEET-

SHUT IN WELLHEAD PRES .. PSIG- 620

3407

OPEN FLOW, MCF/D-

CHECK OF DATA-

METHANE	24.0 %	NORMAL PENTANE	.2 %	OXYGEN	0.0 %
ETHANE	3.7 %	ISOPENTANE	.1 %	ARGON	.6 T
PROPANE	2.2 %	CYCLOPENTANE	TRACES	HYDROGEN	.2 ٦
NORMAL BUTANE		HEXANES PLUS	.1 %	H2S	. 0.0 ≈
ISOBUTANE	.3 %	NITROGEN	63.5 %	C02	.1 [%]
SPECIFIC GRAV	. 865			HELIUM	4.39%
				TOTAL	100.0 %

CALCULATED GROSS BTU/CU FT. DRY AT 60 DEG F AND 30 IN. MERCURY

PERMISSION FOR RELEASE-PERMISSION IS HEREBY GRANTED FOR THE BUREAU OF MINES TO RELEASE THE ABOVE DATA, TOGETHER WITH SIMILAR DATA RELEASED BY OTHER OPERATORS AS PUBLIC INFORMATION AND AS PARTS OF A SERIES OF PAPERS ON ANALYSES OF GASES FROM VARIOUS FIELDS, STATES, OR REGIONS. 1-21-69

COMPANY Humble Oil & Refining Company

J.Roy Dorrough TITLE District Superintendent....

Denver, Colorado

Secretary .

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,			
			= (9-18-67 Thr. FARRIS)
		Humble 88-1	= The FARRIS
	Person	rated 3734 - 3754; Laked	e Farmington
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UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY LESSEE'S MONTHLY REPORT OF OPERATIONS

State .	A part	ribue A	riso	na Co	unty Apt	che	Fiel	d Dine	eh bi Key	eh
Th	re follo	owing	is a	correc	t report of a	operati L,	ons and proc 19 67	duction (in	ncluding d	rilling and producing
Meus)	or one	P	. Q.	Box 1	20		Con	npany	mble 011	& Refining Company
agent	s auai	De	nvei	, Col	o ra do 8020.	l	Sign	ned	SIGNED ,	100
Agent's address P. O. Box 120 Company Hamble Oll & Reliating Company Briginal JOHN R. CROUCH Signed Signed Dist. Administrative Supr. Phone 534-1251 Agent's title Dist. Administrative Supr.										
SEC. AND	1 -	RANGE	WELL No.	DATS PRODUCED	BARRELS OF OIL		Cu. Fr. or Cas (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth: if shut down, cause; date and result of test for gasoline content of gas)
AVAJO TE	ect 8	8								
ESESec 5		29%	1	o						As of 9-1-67 coring at 3,628'.
									1	STATE 1
									41	13 1967 S. COMM.
ec:	-1/E -	Ari	ECINA	OLI 8	Des Conse	Pisti Minor	on Commissi als Supr.,	Esvado T	ribe	
	† -	7	nen	.1	- with the same	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			<u> </u>	MIT

Note.—There were ______runs or sales of oil; _____

runs or sales of gasoline during the month. (Write "no" where applicable.)

Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor. U.S. GOVERNMENT PRINTING OFFICE: 1964--O-729-784 \$92-556

Form approved. Budget Bureau No. 42-R1424. UN ED STATES SUBMIT IN TRIP
DEPARTMENT OF THE INTERIOR verse side) UN ED STATES 5. LEASE DESIGNATION AND SERIAL NO. GEOLOGICAL SURVEY <u>14-20-0603-8812</u> SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.

Use "APPLICATION FOR PERMIT—" for such proposals.) Navajo 7. UNIT AGREEMENT NAME MELF X WELL 2. NAME OF OPERATOR 8. PARM OR LEASE NAME Navajo Tract 88 Humble Oil & Refining Company 3. ADDRESS OF OPERATOR 9. WELL NO. P. O. Box 120, Denver, Colorado 80201 LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface 10. FIELD AND POOL, OR WILDCAT Dinch bi Keyah 11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA SE SE (660' FSL & 660' FEL) of Section 25-36N-29E Sec. 25-36N-29E - G&SRM 15. ELEVATIONS (Show whether DF, RT, GR, etc.) 12. COUNTY OF PARISH 13. STATE 14. PERMIT NO. 8,177' Ungraded Ground. 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data SUBSEQUENT REPORT OF: REPAIRING WELL PELL OR ALTER CASING TEST WATER SHUT-OFF WATER SHUT-OFF ALTERING CASING MULTIPLE COMPLETE FRACTURE TREATMENT FRACTURE TREAT SHOOTING OR ACIDIZING SHOOT OR ACIDIZE ARANDON* REPAIR WELL CHANGE FLANS (Norz: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

N.T. 88 #1

Contractor: Mesa Drillers, P. C. Box 108, Lubbock, Texas 79408.

Drilled 13-3/4" hole from 40' to 603'. Set 9-5/8" OD 32.30# H-HO casing at 603'. Cemented with 550 sacks regular cement plus 2% CaCl. Had returns at all times, but had no cement to surface. Cemented outside casing from 60' to surface with 50 sacks regular cement. Job complete 8/17/67.

CONFIDENTIAL



18. I hereby certify that the foregoing is true and correct COPY (Original) J. ROY DORROUGH 1. Roy Dorrough	TITLE Dist. Supt.	DATE 8/25/67
(This space for Federal or State office use) APPROVED BY	TITLE	TDATE TO SECURE
conditions of APPROVAL, IF ANY: cc: 2 - Arizona Gil & Gas Con		The second secon

1 - Mr. Henry F. Pohlmann, Minerals Supervisor, Navajo Tribe *See Instructions on Reverse Side

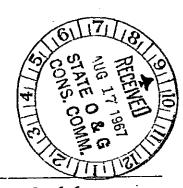
AC421

Ω

OIL WELL GAS WELL OTHER (Spe Well Name Navajo Tract 88, Well No. 1 Location SE SE (660' FSL & 660' FEL) Sec 25 Twp 36N Rge 29E - Federal, State or Indian Lease Number, or lessor's name if fee lease	- G&SRM County Apache , Arizona.
	0-0603-881.2 sta
NOTICE OF INTENTION TO: TEST WATER SHUT-OFF PULL OR ALTER CASING WATER CASING FRACTURE TREAT DIRECTIONAL DRILL FRACTION OF ACIDIZE PERFORATE CASING SHOOT OR ACIDIZE CHANGE PLANS	SUBSEQUENT REPORT OF: ATER SHUT-OFF RACTURE TREATMENT HOOTING OR ACIDIZING ABANDONMENT OTHER) Report of spud date (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

Spud 3:00 P.M., 8-15-67. Drilled 174" hole to 40', set 40' of 16" Spiral Weld casing with 50 sax regular cement plus 2% CaCl. Job complete 4:45 P.M., 8-15-67, WOC 12 hrs., drilled out at 4:45 A.M. 8-16-67.

CONFIDENTIAL



cc:	3	-	U.S.G.S.	Farmington

1 - Henry F. Pohlman, Minerals Supervisor, Navajo Tribe

8. I hereby certify that the foregoing is true an	d correct.
Signed	and the

Date 8-16-67

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

Sundry Notices and Reports On Welis

File Two Copies

Permit No. 421

Form No. 25

WELL SITE CHECK

Contractor Misa Person(s) Contacted Time Spud Date Rotary Cable Tool Present Operations __ Type Rig Samples Air Drilling with Size Hole ____ Water Zones Size Drill Pipe _____ Lost Circ. Zones Formation Tops Type Bit Drilling Cores, Logs, DST No. Bit _ Formation Lithology Crews REMARKS, PHOTO, MAP Thepaing host and boration To \$8-1 Red Lock

Pernit No. 42/ Confidential: 598 No

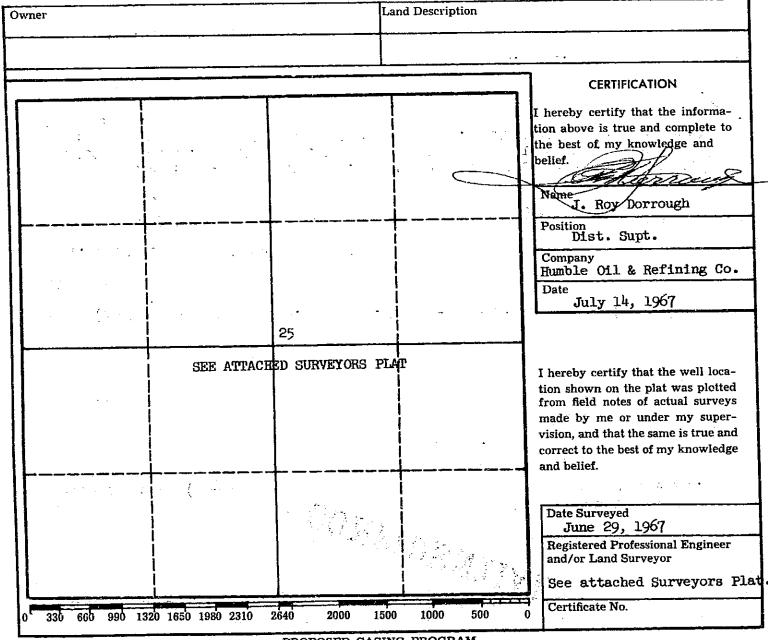
47

APPLICATION TO DRILL	. rXX	RF	-ENTER OLD WELL [] -	
•				
Humble Oil & Refining Company or Operator	pany			<u> </u>
		3	Colorado 802	203
P. O. Box 120,	Denv	· · · · · · · · · · · · · · · · · · ·	State	
Address				
This information will be :	furnished when a	a contractor is	selected.	
Orilling Contractor		Trie	A Li	
Address		a contractor is		
Turi Coo	TMO.			
	DIEGLIF I NOF	WELL AND LEASE	Titanation (ground)	
Federal, State or Indian Lease Number, or if fe Navaio Tract 88 (14-20-060	e lease, name of lessor	Well number	Elevation (ground) 8,177 Ungra	ded.
Manager distance from proposed location	J-00127	Distance from proposed	location to nearest drilling, or well on the same lease:	
to property or lease line: 660		lst well.	or well off the same lease.	r. 4
	feet		e including this well.	feet
Number of acres in lease:		Number of wells on least completed in or drilling	to this reservoir:	
2,560		1		
f lease, purchased with one or more Navells drilled, from whom purchased:	ime	A (ddress	
Well location (give footage from section lines)	1	wnship—range or block and		y with Rule 1
SE SE (660' FSL & 660' FEL	Sec. 25 Sec.	. 25-36N-29E - G8	and -1	in the second
Field and reservoir (if wildcat, so state) Dineh bi Keyah		Apache	-	ويدي تأش
Distance, in miles, and direction from nearest	town or post office	· · · · · · · · · · · · · · · · · · ·	<u> </u>	•
Appr. 40 miles SW of Shipre	ock, New Mexico		Approx. date work will start	
Proposed depth: 3,850	Rotary or cable tools Rotary		Road & Location as	soon as
Bond Status Blanket Bond	Organization Report		Filing Fee of \$25.00	
	On file X	Or attached	Attached X - Check No	5364
	' Native mud.	600' - TD low so	lids water base or a	ir ii m!e
conditions dictate. Testi Logs: IES & Gamma Ray/Son	ng: Possibly 3	cores in Tertia	ry Intrusion. No DS	treat
	if with carrier	000 00 104 00		
if necessary.				
	· · · · · · · · · · · · · · · · · · ·			
		Di	st. Supt.	of
CERTIFICATE: I, the undersigned, under the	e penalty of perjury, st	ate that I am the		
Humble Oil & Refining Compreport was prepared under my supervision and	cany (company).	and that I am authorized by	y said company to make this repo	rt; and that f my knowle
report was prepared under my supervision and	unection and that the 18		F1	>
		State	Myroce	
			J. Roy Dorrough	
		Date	uly 14, 1967	
		Date		
421		· T		<u>~~</u>
Permit Number: 7-26-1		-	STATE OF ARIZONA	W/X
Approval Date:	<i>h</i>	_ OIL # C#	S CONSERVATION COME	SOON \

Approved By: John Jannestor Application to Drill or Re-enter Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided. Form No. 3 PAPI# 02-001-20045 (Complete Reverse Side)

1. Operator shall outline the dedicated acreage for both oil and gas wells on the plat.

- 2. A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
- 3. All distances shown on the plat must be from the outer boundaries of the Section.
- 4. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES_X
- 5. If the answer to question four is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES_____NO_____ If answer is "yes," Type of Consolidation_
- 6. If the answer to question four is "no," list all the owners and their respective interests below:



PROPOSED CASING PROGRAM Bottom

Sacks Cement Cementing Depths Size of Casing Grade & Type Top Weight Circ. to Surface. 9-5/8" 7" 6001 6001 0 H-40 32.30# Sufficient to cover 38501 38501 20# J-55 all pays.

Company Humble Oil & Refining Company

Well Name & No. Navajo Tract 88 #1

Location 660 feet from the South line and 660 feet from the East line.

Sec. 25 . T 36 N. R. 29 E. G & S. R. M., County Apache , Arizono

Ground Election 6177, ungraded.

Sec. 25

Sec. 25

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the

best of knowledge and belief.

Seol:
Seol:
ERMEST V.
ECHOHAWK
PORTONA US.

421

Ernest V. Echohawk
Registered Land Surveyor
Arizona Registration No. 2319

_







PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION, STATE OF ARIZONA,

To: HUMBLE OIL & REFINING	COMPANY						
OPERAT	(ROP)						
to drill a well to b	e known as						
HUMBLE #1 NAVAJO	88						
(WELL NAM							
located660' FSL and FEL							
Section 25 Township 36N Range 29E	County, Arizona.						
The SE/4 (in accorda	nce with Order 21 Case 25) of said						
Section, Township and Range is dedicated to this we							
in full compliance with all applicable laws, statutes, Issued this 201 day of							
By Januster EXECUTIVE SECRETARY							
PERMIT Nº 421	State of Arizona Oil & Gas Conservation Commission						
RECEIPT NO. 9511	Permit to Drill						
	FORM NO. 27						

API # 02-001-20045

O

DINEH-BI-KEYAH FIELD

Operator:

Mountian States Petroleum Corporation

Bond Company:

Indian lands, evidence of bond posted with BIA

Amount:

\$325,000*

Bond No.: Letter of Credit Bond No. 315 Date approved: 5/27/94

* Pursuant to commission motion of October 31, 1997, no bond required with State of Arizona upon evidence of bond posted with the BIA.

Permits covered by this bond posted with the BIA:

<u>377</u>	<u>445</u>
384	<u>446</u>
385	<u>484</u>
386	<u>506</u>
388	<u>618</u>
389	<u>691</u>
390	<u>692</u>
396	<u>693</u>
416	<u>695</u>
417	<u>696</u>
<u>419</u>	<u>719</u>
421	<u>720</u>
422	721
<u>431</u>	<u>722</u>
<u>443</u>	$\sqrt{723}$





Jane Dee Hull Governor

Arizona Geological Survey

416 W. Congress, Suite 100 Tucson, Arizona 85701 (520) 770-3500



Larry D. Fellows Director and State Geologist

December 1, 1997

Ms. Stacey Roberts Kerr-McGee Corporation -P.O. Box 25861 Oklahoma City, OK 73125

921

Re: Kerr-McGee Corporation

\$25,000 Oil Drilling Blanket Bond #2971100-2620

Safeco Insurance Company of America

Dear Ms. Roberts:

Mountain States Petroleum has provided evidence of its bonding with the BIA for the Dineh-bi-Keyah Field in Arizona, and our records show that Kerr-McGee Corporation has no outstanding drilling or plugging obligations in Arizona.

As a result, this letter constitutes written permission by the Oil and Gas Conservation Commission to terminate liability under the referenced bond. A copy of the bond is enclosed for your information.

Please advise if we may be of further service.

Sincerely,

Steven L. Rauzi

Oil & Gas Program Administrator

Stevent. Rains

Enclosure

-<u>azvetu</u>b

KERR-McGEE CORPORATION Operator OF AMERICAL Amount \$25,000 Bond Company Bond No. 2971100-2620 Date Approved FEBRUARY 18, 1994 **ACTIVE** Permits covered by this bond:

(723)

റ



Fife Symington Governor

Arizona Geological Survey

845 North Park Avenue, #100 Tucson, Arizona 85719 (602) 882-4795



Larry D. Fellows
Director and State Geologist

June 8, 1994

Ms. Judy Burkhart Mountain States Petroleum Corporation P. O. Box 1936 Roswell, New Mexico 88201

Dear Ms. Burkhart:

This will acknowledge receipt of your letter of June 6, which included a change of operator form for each of the 31 Kerr-McGee Corporation wells at the Dineh-bi-Keyah Field sold to Mountain States Petroleum Corporation. Our records indicate that the Navajo #B-1 was plugged and abandoned by Kerr-McGee Corporation in October 1993.

Please note that our records indicate a different API number than the one you have recorded on your forms for the following wells:

Well	API #
Navajo 01	02-001-20001
Navajo 03X	02-001-20011
Navajo 04	02-001-20009
Navajo 10	02-001-20042
Navajo 14	02-001-20040
Navajo 15	02-001-20041

Sincerely,

Steven L. Rauzi

Oil & Gas Program Administrator

T wante

UNITED STATES DEPARTMENT OF THE INTERIOR MINERALS MANAGEMENT SERVICE ROYALTY MANAGEMENT PROGRAM

CHANGES TO REPORTER INFORMATION

OLD INFORMATIO mms operator code: company name:	N:	E E CORP	ORATION		
		,	•		
NEW INFORMATI	ON:				
MMS OPERATOR CODE:	x 0 2 7 4	<u> </u>			
COMPANY NAME:	MOUNTATN	KERSHA	S PETRIOL	LIEIUM C	
CONTACT NAME:		<u> : 1 </u>	<u> </u>		
STREET ADDRESS:	2 1 3 E F Q U	RTH	<u>_{</u>		
CITY:	ROSWELL	ZIP CODE:	88201-		
STATE:	NM 505623-	7184			
PHONE:	AREA CODE	·			
COMPLETE IF APPLICABLE: I AM NO LONGER AN OPERATOR OF INDIAN OR FEDERAL PROPERTIES. PLEASE REMOVE MY NAME FROM YOUR MAILING LIST. EFFECTIVE DATE:					
COMPANY SOLD TO	0:	<u> </u>		AZ OII	& GAS
LEASES / AGREEM	ENTS AFFECTED: NAV	AJO #88-1	(421)		N COMMISSION
	Keyah Field - Apache	•	a	JUN	8 1994
	14-20-0603-8812	,	020012004500\$1		
COMMENTS: This property was sold to Mountain States Petroleum Corp.					
and they became operator effective May 1, 1994.					
		:			
		ŧ			

FORM MMS - RPD/PRB/INFO FORM (REVISED 4/93)

SIGNATURE:

DATE:

421

MAIL TO: MINERALS MANAGEMENT SERVICE ROYALTY MANAGEMENT PROGRAM P.O. BOX 25165 MS 3122

DENVER, CO 80225

P. D. BOX 1936

505 623-7184

MOUNTAIN STATES PETROLEUM CORPORATION

213 EAST FOURTH STREET
ROSWELL, NEW MEXICO
88202
June 6, 1994

Arizona Geological Survey 845 North Park Avenue, #100 Tucson, Arizona, 85719 AZ OIL & GAS CONSERVATION COMMISSION

JUN 8 1994

Attention: Steven L. Rauzi,

Oil & Gas Program Administrator

Re: Dineh-bi-Keyah Field Apache County, Arizona

Dear Sir;

In followup of our May 24, 1994, letter to you relative to the change of operator from Kerr McGee to Mountain States Petroleum Corporation for the captioned field; please find enclosed a copy of the notices sent to the Minerals Management Service.

We hope this will supply the information you requested and apologize for any inconvenience we may have caused. If you have any questions or are in need of anything further please contact the undersigned. Thank you.

Sincerely,

Judy Burkhart, Secretary

Enclosures

505 623-7184

P. D. BOX 1936

MOUNTAIN STATES PETROLEUM CORPORATION

213 EAST FOURTH STREET ROSWELL, NEW MEXICO 88202

May 24, 1994

Arizona Geological Survey 845 North Park Avenue, #100 Tucson, Arizona 85719

Attention: Steven L. Rauzi,

Oil & Gas Program Administrator

Re: Dineh-bi-Keyah Field Apache County, Arizona

Dear Sir;

Please be advised that effective May 1, 1994, Mountain States Petroleum Corporation replaced Kerr-McGee as Operator of the captioned field and it's respective wells.

Listed on the attached sheet are the well names and API #'s of each well in this field, including shut-in, producing, and abandoned wells.

Please change your records to reflect that Mountain States Petroleum Corporation, Post Office Box 1936, Roswell, New Mexico, 88202-1936, (505) 623-7184, is now the operator of these properties and as such will be filing all required monthly production reports.

If you have any questions or are in need of anything further in this matter please contact the undersigned. Thank you.

, Sincerely,

Judy Burkhart, Secretary

hidy Burkhart

Attachment

CONSERVATION

MAY 3 _ 1994

MEMORANDUM TO FILE

DATE:

AUGUST 11, 1992

FROM:

STEVEN L. RAUZI

? IN 421

SUBJECT: MECHANICAL INTEGRITY TEST NAVAJO 88-1 AT DINEH-BI-KEYAH

ON 8-7-92 THIS WELL WAS PRESSURED UP TO 600 PSI FOR 30 MINUTES WITH NO DROP IN PRESSURE. THE WELL HAS GOOD MECHANICAL INTEGRITY.



Fife Symington

Arizona Geological Survey

845 North Park Avenue, #100 Tucson, Arizona 85719 (602) 882-4795

Larry D. Fellows
Director and State Geologist

March 5, 1992

Mr. G. Bunas, Analyst II
Kerr-McGee Corporation
US Onshore Region
P. O. Box 25861
Oklahoma City, Oklahoma 73125

Re: Mechanical Integrity tests at Dineh-bi-keyah field, Arizona Navajo 7, 9, 15, 16, 17, 24, 26, "B" 1 & 2, "C" 2, and "88" 1 & 3

Dear Mr. Bunas:

I acknowledge receipt of your sundry notices on the referenced wells. Let me take this opportunity to inform you that the Arizona Oil and Gas Conservation Commission has merged with the Arizona Geological Survey. Please note our new address and phone number in your files for future correspondence.

This office has no problem with your request to defer mechanical integrity testing on the referenced wells until late spring or early summer due to currently adverse weather conditions.

However, when you do schedule the actual dates, I hereby request at least 2 to 3 days advance notice to arrange for a representative from this office to travel to Dineh-bi-keyah to observe these tests.

Stevenh. Rang

Steven L. Rauzi

Oil and Gas Program Administrator

KERR-MCGEE CORPORATION KERR-McGEE CENTER . OKLAHOMA CITY, OKLAHOMA 73125

RECEIVED OCT 21 1986 O & G CONS. COMM.

PLEASE REPLY TO:

EXPLORATION AND PRODUCTION DIVISION U. S. CZISHORE REGION P. O. BOX ZS861 CREAHONA CITY, OKLAHOMA 73125

PHONE 405 848-9750

October 15, 1986

Bureau of Land Management Caller Service 4104 Farmington, New Mexico 87499

D/N 421 RE: Navajo Tract 88 #1 Dineh-Bi-Keyah Field Apache County, AZ Lease #14-20-0603-8812

2/N 443 Navajo Tract 88 #3 Dineh-Bi-Keyah Field Apache County, AZ Lease #14-20-0603-8812

P/N 381 Navajo "B" #1 Dineh-Bi-Keyah Field Apache County, AZ Lease #14-20-0603-8889

Gentlemen:

As requested in your attached letter, enclosed are Sundry Notices for the above wells. Kerr-McGee requests that these wells remain in a temporarily abandoned status as they may be utilized in a possible future waterflood project.

If additional information is required, please advise.

Sincerely,

KERR-MCGEE CORPORATION

Gaylan Bunas Analyst II

5m 5. Stee Joe D. Stein

Manager - Engineering Onshore - N.A.

xc: State of Arizona . Oil & Gas Conservation Commission 1645 West Jefferson, Suite 420

Phoenix, Arizona 85007

I.Geddie/CFR WRF GB/CF

Field Office 505 237-9919

Ute Com 508 325-5034 Unty6

GGB047/rlw



0-0603-8812 et al. (WC) United States Department of the International 3162.3-1.0 (016)

BUREAU OF LAND MANAGEMENT Caller Service 4104 Farmington, New Mexico 87499

OCT 0 6 1986

REC'D

X-FILELWR לין צ'יניינים C.A. Rakowi

Joe steil

RAS

JRH

SWD

CERTIFIED--RETURN RECEIPT REQUESTED

Kerr McGee Corporation P.O. Box 250 Amarillo, TX 79189

Gentlemen:

Reference is made to the following wells:

- 1. No. 1 Navajo Track 88, SE/4SE/4 sec. 25, T. 36 N., R. 29 E., Apache County, Arizona, lease 14-20-0603-8812.
- 2. No. 3 Navajo Track 88, SE/4NE/4 sec. 36, T. 36 N., R. 29 E., Apache County, Arizona, lease 14-20-0603-8812.
- 3. No. 1 Navajo "B", SE/4NW/4 sec. 5, T. 35 N., R. 30 E., Apache County, Arizona, lease 14-20-0603-8889.

These wells have been approved for plugging for over a year. If the wells have been plugged, you are required to submit your subsequent report of abandonment. If the wells have not been plugged, you are required to submit your plans of when these wells are to be plugged. Your reply must be filed on a Sundry Notice (Form 3160-5, six copies each).

Failure to submit the above within 15 days of receipt of this letter may result in an assessment for noncompliance pursuant to 43 CFR 3163.3.

You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR

Sincerely,

For Ron Fellows Area Manager

KERR-MCGEE CORPORATION

RECEIVED

APR 9 1984

0 & G CONS. COMM.

4221 WEST TWENTY-FIRST AVENUE P. O. BOX 250 • AMARILLO, TEXAS 79189

April 6, 1984

PHONE

806 359-0351

OIL AND GAS DIVISION

State of Arizona Oil & Gas Conservation Commission 1645 West Jefferson Suite 420

Phoenix, Arizona 85007

Attn: Rudy Ybarra:

RE: Application to Abandon and Plug Kerr-McGee Corporations's Navajo 88-1. Located in the Dineh-Bi-Keyah Field, Apache County, Arizona.

Mr. Ybarra:

Enclosed is Form 9, "Application to Abandon and Plug," for the Navajo 88-1.

The Navajo 88-1 was completed in October of 1967. The 88-1 produced for one and one-half years at an average rate of 10 BOPD before being temporarily shut in on September 5, 1968. The well produced intermittently at 2 to 5 BOPD before it was temporarily abandoned in 1977.

Statewide Rule 201 (B) of ACC's rules and regulations states that before any work is commenced to plug and abandon any well below the fresh water level, the operator shall, prior to the beginning of plugging operations, give written notice of their intention to abandon such a well.

In order to comply with Statewide Rule 201 (B), Kerr-McGee is submitting Form 9, "Application to Abandon and Plug," in duplicate for the Navajo 88-1.

Should any additional information be required, please contact me at

Sincerely,

KERR-MCGEE CORPORATION

Garon Reyne Aaron Reyna Engineering Assistant

Jes. Ster

District Engineer Southwest District - N.A.

AR/sh Enclosure

255-

November 14, 1979

Kelley Eisenberg Engineering Assistant, Southwest District Kerr-McGee Corporation P.O. Box 250 Amarillo, Texas 79189

Re: Dineh-bi-Keyah Field Navajo 1-88, Permit No. 421

Dear Mr. Eisenberg:

The Monthly Producers Report for October shows the above captioned well as producing 18 barrels of oil. The last production reported prior to this was December 1977. Data in this well file indicate temporary shut in September 5, 1968.

It will be necessary to file a Sundry Notice on this well. Also, is any additional work was performed, we will need a Recompletion Report. Forms are enclosed.

Yours truly,

Don Whittaker Director Enforcement Section

DW:os Enc.

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DINEH-BI-KEYAH

Ti e ii.

APACHE

MONTHLY PRODUCERS REPORT

Kerr-McGee Corporation . Amarillo, Texas 79189 Box 250

rage 3 or 3

LEGIME

18,177 Oil on Hard End of Mont complete to the best of my knowledge. ÷ \$ 5 101 101 Disposition of Oil - Bbls. ğ 1,770 1,343 409 962 29,555 Bbls. to Transporter Oil on Hand Beg. of Month 15,157 See of the > \triangleright Disposition of Gas - MCP 475 913 475 14,887 Other 3 3 2 2 1 9 8 Days Produced October TSTM 475 TSTM 14,887 913 475 575 18,875 39 ,548 156 94 Month 1,743 Water Water Produced . 18 ,343 ,409 770 962 Actual ESIA, OF Produced H 82 -4 eutst2 (ebo2) (O) I(Q - ebo2) (J) staanebno2 000 ठ М 421 431 443 i i i 388 GRAND TOTAL LEASE TOTAL ₹2 10 m Navajo Tract #138 14-20-0603-8876 Navajo Tract #88 14-20-0603-8812 cel, Sans or Indian Ioses Number or Lesson's Name If fee Lesso rield Office Address County

"OTHER" GAS DIPOSITION CODE

X — Used Off lessa { (Show destination on reverse side)

0 — Used For Drilling {

G — Gas Life

L — Lost (MCF Estimated)

E — Explessiving or Pressure Maintenance

V — Used On Lessa

V — Vented

"OTNEY" OIL DISPOSITION CODE
C — Circulating Oil
L — Lost
S — Sedimentation (ISAW)
E — Explanation Attached

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Code

No.

No.

Ker-MrGee Piceline

131 Ker-MrGee Piceline

132 Rosk biland Gif & Ref.

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PURCHASER CODE

Code
New Name
No.
Arizon Hellum Corp.
202 El Paio Not. Gas
703 Kerr-ArGee Corp.

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Naminy Property Report
Fig. One Cop.

Janell Stroud - Production Clerk

form No

O

Humble No. 607386 KM No. P689-73

FORM 5-5429 AUG. 1961 Contract No. 20-0603-8812

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF INDIAN AFFAIRS

ASSIGNMENT OF MINING LEASE

oil and gas mining lease, d	ated October 12	64
entered into by and between Chairman, Navaj		
and Humble Oil & Refining Company		, lessee,
covering the following-described lands in the Nava	ijo Tribal Indian Lands (Insert name of Reservation, Pueblo, Nation, etc., as	needed)
in the State of Arizona, County of Apache,		
All of Sections 25, 26, 35 and 36, To	ownship 36 North, Range 29 Ea	st,
G&SRM, Apache County, Arizona, co	ontaining 2560.00 acres, more	or less.
	*	
والمراقعة والمراقعة والمراقع المراقية والمراقع		**************************************
Now, THEREFORE, for and in consideration of	FEN DOLLARS (\$10.00) and other	ner good
and valuable considerationम्हासुम्बर्	**************************************	hereby acknowl-
edged, the said Humble Oil & Refining Co	ompany	
the owner of the above-described lease, hereby bar		ŧ
all of its	-inhi iikha amalimbawastim	
	right, title, and interest in	and to said lease,
subject to the approval of the Secretary of the In	nterior or his authorized representative Oklahoma City.	Kerr-McGee
	nterior or his authorized representative Oklahoma City.	Kerr-McGee
subject to the approval of the Secretary of the In	nterior or his authorized representative Oklahoma City.	Kerr-McGee
subject to the approval of the Secretary of the In Corporation, Kerr-McGee Building, December Said assignment to be of the Interior or his authorized representative.	nterior or his authorized representative Oklahoma City. Exof Oklah er 31, 1972 at 11:59 p.m., E. effective from Water of approval hereby	Kerr-McGee oma 73102 5. T., upon by the Secretary
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ACKNOWL	EDGMENT OF	CORPORATION
Texas	1	•
ATE OF Harris	58:	•
UNTY OF	•	22 day of December 172
Before me, a notary public, in and for said c	ounty and State o	n this 22 day of December , 172 Siegele of the maker thereof to the foregoing instrument as its
gonally appeared		
me known to be the identical person who sub	scriped the rame. Procident	and acknowledged to me that
T 100	and doed and	as the free and voluntary act and deed of such corpora-
executed the same as his tree and voluntary	h	
n, for the uses and purposes therein set fort	11.	1 1 1 6 The Comme
	27.0	TEVI C WIDDLESTON - Notary Public.
v commission expires June 1	, 19.73	Victorian andrea
ACVANOU	TEDCMENT (JELI G. HUDDLESTON - Notary Public. DF INDIVIDUAL 1, 1973
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OUNTY OF	\ ss:	
OUNTY OF		
Before me, a notary public, in and for said	l county and State	, on this, 19,
ersonally appeared		, UI 1110
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	to	executed the same asfree
ithin and foregoing instrument, and acknowl	edged to me that	i faith
nd voluntary act and deed for the uses and pr	arposes therein set	, ionn.
		Notary Public.
Ty commission expires	19	
nereby accepts such assignment and agrees w	of recordations of t	subject to the approval of the Secretary of the Interior gations, conditions, and stipulations in said described inde he Secretary of the Interior applicable thereto, and to full lease and this agreement.
wish seems bond quaranteeing a laithiul com	Thurstice with sever	
IN WITNESS WHEREOF, the said assignee	has hereunto set.	its hand and seal this 29th
day of, 19	72	XERR-MCGEE CORPORATION
ATTEST:	•	AFAILE-ROOM GOLD CO.
==		Ву В. Э. годра
Cont Continue	· · ·	Vice President - 3. G. Taylor
Assistant Secretary		
	CONSENT OF	FSURETY

t and Amender of	caid lange as abov	e made and agrees that said bond shall remain in force
consents to the assignment and transfer of	Bail icide do	•
effect covering obligations of assignee.		
Dated at	th	is, 19.
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		DEPARTMENT OF THE INTERIOR BUREAU OF INDIAN AFFAIRS
		FEB 1 5 1273 10

Area Director.
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APPROVED:

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KERR-MCGEE CORPORATION

626 AMARILLO PETROLEUM BUILDING P. O. 80X 250 - AMARILLO, TEXAS 79105

November 5, 1973

PHONE

836 376-7256

Oil and Gas Conservation Commission State of Arizona 4515 North Seventh Avenue Phoenix, Arizona 85013

Attention: Mr. W. E. Allen

Director

Dear Mr. Allen:

In regards to your letter of September 18, 1973, requesting reserve information for the Dineh-bi-Keyah Field and Pinta Dome Field, please be advised that I have referred your letter to our Oklahoma City office and have determined that due to company policy, we are unable to furnish the information at this time.

Yours truly,

KERR-McGEE CORPORATION

Warren E. Richardson
District Manager

District Manager Southwestern District

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OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA

4515 NORTH 7TH AVE. PHOENIX, ARIZONA 85013 PHONE: (602) 271-5161

September 18, 1973

Mr. Warren E. Richardson Kerr-McGee Corporation P. O. Box 250 Amarillo, Texas 79105

Dear Mr. Richardson:

Will you please supply this Commission with any information that you might have regarding the recoverable reserves in the Dineh-Bi-Keyah Field and also in the Pinta Dome Field?

This information will be considered confidential if you so desire.

Thank you for your cooperation.

Very truly yours

W. E. Allen, Director Enforcement Section

WEA/rlb

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OFFICE OF

Gil and Gas Conservation Commission

STATE OF ARIZONA

4515 NORTH 7TH AVE. PHOENIX, ARIZONA 85013 PHONE: (602) 271-5161

July 31, 1973

Mr. C. J. Breeden Kerr-McGee Corporation 626 Amarillo Petroleum Building Amarillo, Texas 79105

Re: Comingled Oil Production
Navajo Tract 88 & 138 Leases
Dineh-bi-Keyah Field
Apache County, Arizona

Dear Mr. Breeden:

We have thoroughly studied your request regarding the comingling of oil produced in the Dineh-bi-Keyah Field and have also discussed the situation with Phil McGrath of the United States Geological Survey in Farmington.

If approval for the comingling of oil from the Navajo Tract 88 and 138 with the oil produced from the remainder of the Dineh-bi-Keyah Field receives no objections from the U.S.G.S. or the Navajo Tribe, then this Commission will concur with their approval.

If comingling is approved by all regulatory bodies, this Commission will still require the individual G.O.R. well test as it has in the past.

If we can be of any help to you in this matter, please let us know.

Very truly yours,

W. E. Allen, Director Enforcement Section

WEA/rlb

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626 AMARILLO PETROLEUM BUILDING
P. O. BOX 250 • AMARILLO, TEXAS 79105

July 25, 1973

PHONE 806 376-7256

State of ARizona Oil and Gas Conservation Commission 4515 North Seventh Avenue Phoenix, ARizona 85013

Attention: Mr. John Bannister

Re: Commingled Oil Production
Navajo Tract 88 & 138 Leases
Dineh-bi-Keyah Field
Apache County, Arizona

Gentlemen:

Kerr-McGee Corporation requests permission to meter and commingle the production from Navajo Tract 88, Navajo Tribal Lease Number 14-20-0603-8812, and Navajo Tract 138, Navajo Tribal Lease Number 14-20-0603-8876, with the production from the Navajo Lease, Navajo Tribal Lease Number 14-20-0603-8823, and Navajo "B" Lease, Navajo Tribal Lease Number 14-20-0603-8889.

The production from these leases are handled in the following manner at the present time.

There are three (3) producing wells on the Navajo Tract 88. Well Numbers Two (2) and Three (3) are produced into four (4) 400 barrel tanks. Well Number One (1) is produced into another 400 barrel tank. This production is run through a LACT unit and then commingled with the Navajo and Navajo "B" production.

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State of Arizona July 25, 1973 Page -2-

Well Number One (1) is the only producing well on the Navajo Tract 138. It is producing into six (6) 400 barrel tanks. This production is run through a LACT unit and then commingled with the Navajo and Navajo "B" production.

The LACT units are powered by gas driven generators. Often last winter, fuel could not be transported to run these LACT units and casinghead gas was also unavailable. This caused considerable down time for these wells.

Kerr-McGee desires to replace the LACT unit and storage tank system with Floco positive displacement meters installed to meter the production from the Nayajo Tract 88 Well Numbers Two (2) and Three (3) and Nayajo Tract 138 Well Number One (1). The production from the Nayajo Tract 88 Well Number One (1) will continue to be measured in a tank. A 400 barrel tank will be retained at both leases to test and calibrate the meters.

Kerr-McGee intends to install power lines to the above wells which will be metered. Electric motors will be used to power the pumping units and this should decrease the down time on these wells, which has been encountered with the gas engines, which are now being used for power. Kerr-McGee's power plant does not have sufficient generator capacity to include power for the LACT units on the Tract 88 and 138 Leases. The electrical system will be installed so the meter count from each of the metered wells can be recorded on a counter at the Kerr-McGee Warehouse. This will allow better observance of each wells performance.

Metering and commingling such as this has been approved for the Navajo "B" Lease by the United States Geological Survey and the Arizona Oil and Gas Conservation Commission. The working and royalty interest are identical for all of the producing leases in the field with Kerr-McGee Corporation owning all of the working interest in the field.

Granting this request will minimize the wells shut-down time due to inaccessibility of the locations during adverse weather conditions such as were encountered last winter.

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State of Arizona July 25, 1973 Page -3-

Your earliest possible approval of this proposal will be appreciated since this work needs to be completed before winter.

Sincerely yours,

KERR-McGEE CORPORATION

C. J. Breeden
District Production Superintendent

CJB/mm

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P. O. BOX 250 . AMARILLO, TEXAS 79105

March 22, 1973

PHONE 806 376-7256

Oil and Gas Conservation Commission State of Arizona 4515 North 7th Avenue Phoenix, Arizona 85013

Attention Mr. W. E. Allen, Director Enforcement Section

> RE: Navajo Tract 88 Well No. 1 SE/SE Sec. 25, T36N, R29E Apache County, Arizona Permit Number 421

Gentlemen:

Mr. Allen by his letter of March 14, 1973, requested for Kerr-McGee Corporation to inform the Commission of any future plans to restore the Navajo Tract 88 Well Number 1 to production as there was no production from this well in January and February, 1973.

The road to this well had been covered by a large land slide and snow which is 8' deep. When weather conditions improve, it is anticipated the slide will be removed and the well returned to production.

Very truly yours,

KERR-McGEE CORPORATION

C. J. Breeden

District Production Superintendent Southwestern District

CJB/mm

Copies to: Mr. H. C. Hanna WRF

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March 14, 1973

Mr. C. J. Breeden Kerr-McGee Corporation P. O. Box 250 Amarillo, Texas 79105

Re: Humble Navajo #88-1 SE/SE Sec 25-T36N-R29E Apache County Permit No. 421

Dear Mr. Breeden:

Your Production Report for the months of January and February indicate no production from the above referenced well. Will you please advise this Commission of any future plans you may have to restore this well to production. If the well is to be plugged and abandoned or temporarily abandoned, we will appreciate receiving this information as soon as possible.

Very truly yours,

W. E. Allen, Director Enforcement Section

WEA/rlb

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8. G. TAYLOR, VICE PRESIDENT
OIL AND GAS PRODUCTION DIVISION

February 23, 1973

Arizona Oil & Gas Conservation Commission 4515 North 7th Avenue Phoenix, Arizona 85013

Attention Mr. John Bannister

As advised in our letter of January 2, 1973, we are enclosing for your file one xerox copy each of approved Assignment of Oil and Gas leases on Contract Nos. 14-20-0603-8812 and 14-20-0603-8879. The Bureau of Indian Affairs furnished us a carbon copy of each of these Assignments retaining the originals for their files.

B. G. Taylor

BGT/bs

Enclosures

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IN REPLY REFER TO:
ARPM/Minerals

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF INDIAN AFFAIRS

Navajo Area Office

Window Rock, Arizona 86515

February 20, 1973

Kerr-McGee Corporation
Kerr-McGee Building
Oklahoma City, Oklahoma 73102

Attention: B. G. Taylor

Dear Mr. Taylor:

Enclosed are your copies of Assignment of Oil and Gas
leases on Contract Nos. 14-20-0603-8812 and 14-20-06038879 which are approved effective February 15, 1973.
We have retained the original copies for our files.

Sincerely yours,

Realty Officer

Enclosures

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OFFICE OF

Gil and Gas Conservation Commission

STATE OF ARIZONA

4515 NORTH 7TH AVE. PHOENIX, ARIZONA 85013 PHONE: (602) 271-5161

January 8, 1973

Mr. C. D. Williams District Manager Kerr-McGee Corporation P. O. Box 250 Amarillo, Texas 79105

Re: Humble Oil & Refining Navajo Tract 88 and Tract 138 Dineh-bi-Keyah Field, Apache County

Dear Mr. Williams:

In my telephone conversation with Mr. Breeden concerning the transferring of ownership on the above referenced leases from Humble to Kerr-McGee, we advised Mr. Breeden that we would need a copy of the instruments transferring ownership from Humble to Kerr-McGee or some other acceptable expression. Since talking with Mr. Breeden, we have notified him by letter dated January 2, 1973, that we would also need an affidavit from your bonding company accepting the responsibility of all the unplugged holes formerly belonging to Humble that your Company is now operating. We would appreciate this information as quickly as possible.

Attached are the approved copies of the Operator's Certificate of Compliance, Form \$.

Very truly yours,

W. E. Allen, Director Enforcement Section

WEA/rlb

Enc.

421

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P. O. BOX 250 . AMARILLO, TEXAS 79105

January 4, 1973

PHONE 806 376-7256

Oil & Gas Conservation Commission State of Arizona 4515 N. 7th Avenue Phoenix, Arizona 85013

Attention John Bannister, **Executive Secretary**

Dear Mr. Bannister:

As per the telephone conversation between Mr. Bill Allen with the Arizona Commission and Mr. Joe Breeden of Kerr-McGee's Amarillo office, Kerr-McGee Corporation took over operation of wells on Navajo Tract 138 and Navajo Tract 88, Dineh-bi-Keyah Field, Apache County, Arizona, from Humble Oil and Refining Company, effective January 1, 1973. Enclosed please find two copies of Form #8, Operator's Certificate of Compliance and Authorization to Transport Oil or Gas From Lease for Navajo Tract 138 and two copies for Navajo Tract 88.

Also enclosed for your files and records are two copies of U.S.G.S. Form 9-331, Sundry Notice and Reports on Wells, reporting the change in Operator for each of the wells on the two tracts. If additional information is needed at this time, please advise.

Yours very truly,

KERR-MCGEE CORPORATION

C. D. Williams District Manager Southwestern District Production Department

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Navajo Tribe Minerals Dept. RECEIVED

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B. G. TAYLOR, VICE PRESIDENT
OIL AND GAS PRODUCTION DIVISION

January 2, 1973

Arizona Oil & Gas Conservation Commission 4515 North 7th Avenue Phoenix, Arizona 85013

Attention Mr. John Bannister

This will confirm verbal advice by our Mr. C. J. Breeden to Mr. Bill Allen with the Arizona Oil & Gas Conservation Commission December 28, 1972, that Humble Oil & Refining Company has assigned to Kerr-McGee Corporation Lease #40678, Contract #14-20-0603-8812, covering Sections 25, 26, 35 and 36-T36N-R29E, Apache County, Arizona, and Lease #40915, Contract #14-20-0603-8876, covering Section 6-T35N-R30E, Apache County, Arizona, both being in the Navajo Tribal Indian Lands. Such Assignments effective 11:59 p.m., EST, December 31, 1972.

Fully executed copy of the Assignments will be furnished you when approved by the Bureau of Indian Affairs, Department of Interior. Necessary Arizona Oil & Gas Conservation Commission lease operating forms will be filed with you by our Amarillo, Texas office.

B. C. Haylor Vice Presiden

B. G. Taylor, Vice President Oil and Gas Production Division

BGT/bs

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Arizona Oil & Gas Conservation Commission January 2, 1973 Page -2-

cc: Kerr-McGee Pipeline Corporation Oklahoma City, Oklahoma

> Mr. P. K. Hurlbut Navajo Tribe Window Rock, Arizona 86515

Humble Oil & Refining Company P. O. Box 1600 Midland, Texas 79701

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OFFICE OF

Gil and Cas Conservation Commission

STATE OF ARIZONA

4515 NORTH 7TH AVE. PHOENIX, ARIZONA 85013 PHONE: (602) 271-5161

January 2, 1973

Mr. C. J. Breeden Kerr-McGee Corporation P. O. Box 250 Amarillo, Texas 79105

Re: Humble Navajo #138-1 SE/NW Sec 6-T35N-R30E Apache County Permit No. 388

> Humble Navajo #88-2 SE/NE Sec 25-T36N-R29E Apache County Permit No. 431

Humble Navajo #88-1 SE/SE Sec 25-T36N-R29E Apache County Permit No. 421

Humble Navajo #88-3 SE/NE Sec 36-T36N-R29E Apache County Permit No. 443

Dear Mr. Breeden:

Please have your bonding company issue a statement to this Commission that they are willing to accept the responsibility on the above referenced wells and any other holes that you may have acquired from Humble. This statement from the bonding company will need to name the wells and give the legal description. Your early attention to this matter will be appreciated.

Very truly yours,

W. E. Allen, Director Enforcement Section

WEA/rlb

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X-Chiono X-Lambert

July 10, 1969

Mr. J. Roy Dorrough Humble Oil & Refining Company P. O. Box 120 Denver, Colorado 80201

Re: Humble #1 Navajo 88 T36N, R29E, G & SRM Sec. 25: SE/4 SE/4 Apache County Permit #421 Humble #1 Navajo 140 T35N, R30E, G & SRM Sec. 8: SE/4 NE/4 Apache County Permit #393 X

Dear Mr. Dorrough:

Authorization from this Commission is hereby granted to continue the captioned wells in a temporary abandoned status. This temporary abandoned status will expire June 16, 1970. We will require our Form 25 (or U.S.G.S. Sundry Notice Report) to be submitted monthly as you have done in the past.

Yours truly,

James A. Lambert Administrative Assistant

JAL:jf

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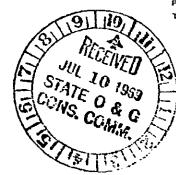
HUMBLE OIL & REFINING COMPANY

DENVER, COLORADO 80201

PRODUCTION DEPARTMENT
DENVER DISTRICT
J. R. DORROUGH
SUPERINTENDENT

July 8, 1969

POST OFFICE BOX 120 TELEPHONE 534-1251



Oil and Gas Conservation Commission State of Arizona Room 202, 1624 West Adams Phoenix, Arizona 85007

Attn: Mr. James A. Lambert

Gentlemen:

Re: Humble #1 Navajo 88 T36N, R29E, G & SRM Sec. 25: SE/4 SE/4 Apache County Permit #421 Humble #1 Navajo 140 T35N, R30E, G & SRM Sec. 8: SE/4 NE/4 Apache County Permit #393

In answer to your letter of June 30, 1969, relating to the above, please be advised that these two wells are in the same category as the four wells set forth in our letter of June 5, 1969.

We hereby request extension of the temporary abandoned status on the above two wells.

for letter

Very truly yours,

J. Roy Forrough

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X-Chrono X-Lambert

June 30, 1969

Mr. J. Roy Dorrough Humble Oil & Refining Company P. O. Box 120 Denver, Colorado 80201

Re: Humble #1 Navajo 88 T36N, R29E, G & SRM Sec. 25: SE/4 SE/4 Apache County Permit (421)

Mumble #1 Navajo 140 T35N, R30E, G & SRM Sec. 8: SE/4 NE/4 Apache County Permit #393

Dear Mr. Dorrough:

For the past year these wells have been carried in the temporary abandoned status. Please advise us what plans you have for each of the wells in the ensuing year and make new request for extending temporary abandon status should you wish that these wells remain in that status.

Yours truly,

James A. Lumbert Administrative Assistant

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See fore Sudy Report
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421

HUMBLE OIL & REFINING COMPANY

DENVER, COLORADO 80201

DENVER DISTRICT

March 24, 1969

BOARD OF EAST, FROM STORE

Mr. John Bannister Arizona Oil & Gas Conservation Commission 1624 West Adams - Suite 202 Phoenix, Arizona 85007

Dear Mr. Bannister:

Attached please find Bureau of Mines "Report of Analysis" of gas samples on all wells drilled by Humble Oil & Refining Company in the Dineh bi Keyah Area, Apache County, Arizona.

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Well Name & No.	No. of Reports
Navajo Tract 87 #1- 40\	1
Navajo Tract 88 #1 - 1/-1	3
Navajo Tract 88 #2-4/3/	4
Navajo Tract 88 #3-443	1
Navajo Tract 140 #1-393	3
Navajo Tract 151 #1 - 434	3

These reports should complete all records on the well in this area. Analysis were not made on wells not listed above.

Very truly yours,

J. Roy Dorrough Dist. Supt.

Attach.

9-19-68

Telcon from John Richardson, Humble, Denver

Re: Humble #1-88 Permit 421 Our letter of 9-17-68

Captioned well is being used as an observation well for injection into #4-88 well. Model D packer was set below the gas zone and tubing set thru to check whether any communication.

Status (TA) not changed. Sundry report will be coming in.

med 9/20/6P

September 17, 1968

Humble Oil & Refining Company P.O. Box 120 Denver, Colorado 80201

Attention: Mr. J. Roy Dorrough, District Superintendent

Re: Humble #1 Navajo 88
SE SE 25-36N-29E Apache County
Permit 421

Gentlemen:

We have heard that captioned well has been completed and shut-in as a gas well on August 24, 1968 at a plugback total depth of 3525 feet.

It is necessary that a sundries report detailing your operations from July 12, 1968 to completion, a well completion report (Form 4), the initial Back Pressure Test (Form 18), and gas analysis be submitted.

Very truly yours,

John Bannister Executive Secretary

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HUMBLE OIL & REFINING COMPANY

DENVER, COLORADO 80201

DENVER DISTRICT

August 6, 1968

POST OFFICE BOX 120

Oil and Gas Conservation Commission, State of Arizona Suite 202, 1624 West Adams Phoenix, Arizona 85007

Attn: Mr. John Bannister

Gentlemen:

In accordance with Rule 202.B of the Arizona Oil and Gas Conservation Commission Rules and Regulations, we request permission for temporary abandonment of the following well:

> Navajo Tract 88 #1 - Permit No. 421 SE SE Section 25-36N-29E, Apache County, Arizona

Operations on this well have been suspended and the well. is temporarily abandoned. We would like to hold it in this status for an indefinite period pending future disposition, workover, secondary recovery or observation well.

Very truly yours,

J. Roy Dorrough

District Superintendent

U.S.G.S. / Farmington

Minerals Supervisor, Navajo Tribe

July 3, 1968

Humble 011 & Refining Company P.O. Box 120 Denver, Colorado 80201

Re: Humble #1-88 Navajo SE SE 25-36N-29E Apache County, Arizona

Permit 421

Gentlemen:

A survey of our files reveals that no operations have been conducted on captioned well since April 21, 1968.

Therefore in accordance with Rule 202.B. this well shall be plugged and abandoned unless written permission for temporary abandoment is obtained from the Commission.

Very truly yours,

John Bannister Executive Secretary

June 21, 1968

Mr. J. Roy Dorrough: Humble Oil & Refining Company P. O. Box 120 Denver, Colorado 80201

Dear Mr. Dorrough:

Your letter of May 31, 1968 requests that certain gas wells be exempt from Capacity Testing in compliance with Rule 401. Our records do not reflect that any of these have been completed gas wells. Therefore, we will need the information indicated on the attached sheet.

We do have on file the application that the Humble 488 be considered as a salt water injection well.

As soon as we receive clarification on the above points, consideration will be given to your request.

Very truly yours,

John Bannister Executive Secretary ir

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	#.) 146 Permit 452	#4-88 Permit 447	# 1-88 Permit 421	#1-87 Permit 401	# 0-138 Fermit 400	# 1- 140 Fermit 393	We!	
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HUMBLE OIL & REFINING COMPANY

DENVER, COLORADO 80201

DENVER DISTRICT

May 31, 1968

POST OFFICE BOX 120

Oil & Gas Conservation Commission State of Arizona 1624 West Adams-Suite 202 Phoenix, Arizona 85007

Attn: Mr. John Bannister

Dear Sir:

In compliance with Rule 401 and Directive D-2-67, we hereby request exemption from Capacity Tests of Gas Wells on the following shut-in gas wells during the month of June, 1968.

40 | #1 Navajo Tract 87 SE NE Section 23-36N-29E, Apache County

#1 Navajo Tract 88
SE SE Section 25-36N-29E, Apache County

#4 Navajo Tract 88 -SE NW Section 25-36N-29E, Apache County

#2 Navajo Tract 138 SE SE Section 6-35N-30E, Apache County

#1 Navajo Tract 140 39 SE NE Section 8-35N-30E, Apache County

#1 Navajo Tract 146
SE SW Section 15-35N-30E, Apache County

Your approval of these exemptions will be appreciated.

Very truly yours,

J. Roy Dorrough

RECEIVED NUN 7 38 STATE O & CONS. COM

MERICA'S LEADING ENERGY

November 28, 1967

Humble 011 & Refining Company P.O. Box 120 Denver, Colorado 80201

Attention: Mr. J. Roy Dorrough, District Superintendent

Gentlemen:

Enclosed are the following:

- 1. A supply of the revised Monthly Producers Report which supersedes the previous individual oil and gas production forms. Use of these revised forms should begin immediately.
- 2. Permit to Drill, and supporting papers, for the Humble #3-88 Navajo.
- 3. Authorization to Transport Oil or Gas From Lease, executed November 22, 1967 (Tract 88), changing the transporter.'

In reviewing our files it is noted that the Humble #1-88 Navajo was temporarily abandoned September 29, 1967, and that sometime during the month of October you report "Tessing interval of 3407-73'."

The file on the Humble #2-88 Navajo reflects that in October you "Tested interval 4626-86"... now running pressure buildup." BHP report through November 10, 1967 has been received.

As you are aware, this Commission should be kept current/informed as to operations on any well within the State of Arizona. Therefore, will you file immediately the information necessary to reflect your operations to bring these files to a current status, as well as the reports of IP, GOR, and well completion.

Your cooperation is appreciated.

Very truly yours,

John Bannister Executive Secretary

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CERTIFICATE OF COMPLIANCE AND AL **OPERATOR** 10 TRANSPORT OIL OR CAS FROM LEASE Federal, State or Indian Lease Number, Field Navajo Tract 88 - 14-20-0603-8812 Dineh bi Keyah Hermosa Survey or Sec-Twp-life State County Apache Arizona Sec. 25-36N-29E - G&SRM Humble Oil & Refining Company ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO: Colorado 80201 Denver P. O. Box 120 Above named operator authorizes (name of transporter) Kerr-McGee Pipe Line Corporation Transporter's street address Oklahoma 73102 Kerr-McGee Building Oklahoma City P. O. Box 989, Earmington, New Mexico 87401 Oil, condensate, gas well gas, casinghead gas from said lease. % of the To transport OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS: % transported Product transported Name of gatherer None Indicate whether or not this certificate is for a new lease. If not a new lease, indicate whether or not it is a change of operator, change of lease name, change of gatherer, or a consolidation or subdivision of leases and give effective date of change.

Change of transporter from Permian Corp. to Kerr-McGee Pipeline Corp. Oil will be hauled by the Permian Corp. (As Humble Agent Only) from this lease to the Humble Navajo Tract 138 tank battery location where a pipeline connection is now available. This will be only a temporary situation until a pipeline can be laid from Navajo Tract 88 tank battery for a

The undersigned certifies that the rules and regulations of the State of Arizona Oil & Gas Conservation Commission have been complied with in drilling and producing operations on this lease, except as noted above, and that the above transporter is authorized to transport the above specified percentage of the allowable oil or gas produced from the above described property, and that this authorization will be valid until further notice or until cancelled by the State of Arizona Oil & Gas Conservation Commission.

Humble Oll & Relining Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

permanent pipeline hookup to the Kerr-McGee Pipeline

Mr. Henry F. Pohlmann, Minerals Supr.,

Navajo Tribe

Humble Oil & Refining Company

November 22, 1967

Date

John F. Richardson STATE OF Operator's Certificate of Compli Transport Oil or Ga File Two Copies

Form No. 8

CONSIGNEES MEMO ARIZONA - - UTAH EXPRESS DUE AUX REVENUE EQUIP. 363 4616 SHIPPERS NO. STREET ADDRESS

BOX 202 1624 DAGS

9027624 W PHOENIX ARIZ 9/13/67BLM RATE DESCRIPTION OF ARTICLES NO. OF PIECES # 1-88 140 605 PPD 2 BAGS NO SAPLES 432 ALBUST PLS RATE AND ADVISE PREPAID CONSIGNEE I.C.C. REGULATIONS REQUIRE PAYMENT OF FREIGHT-BILLS WITHIN 7 DAYS AFTER PRESENTATION.

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9-13-67

Telephoned Humble Denver, re: Humble #1-88 Navajo, Permit 421

Advised Mr. Richardson that Certificate of Compliance could not be issued until such time as necessary reporting was filed to indicate this is a producing well.

Mr. Richard indicated this well actually in the completion-testing stage. Humble therefore can truck such oil pending completion as a producing well.

O

Federal, State or Indian Lease Number,	O TRANSPORT OIL OR	GAS FROM LEA	UT RIZATION ASE	
'edera). State or Indian Lease Number.	Field		Reservoir	
r lessor's name if fee lease avajo Tract 88 - 14-20-0603-		Kevah	Hermosa	
avajo Tract 00 - 14-20-0003- urvey or Sec-Twp-Rge	County		State	
ec. 25-36N-29E G &SRM	Apache		Arizona	
perator	1 1100220			
Humble Oil & Refining Compa	ny	_		[
ADDRESS	ALL CORRESPONDENCE C	CONCERNING THIS	FORM TO:	
treet	City		State	
P. O. Box 120,	Denver,		Colorado 80201	
above named operator authorizes (name of tra	insporter)	, <u> </u>		
Kerr-McGee Pipe Line Corpor				
Fransporter's street address	City		State	
Kerr-McGee Building	Oklahoma City	У	Oklahoma 73102	
Field address				
P. O. Box 989, Farmington,	New Mexico 87401			
	Oil, condensate, gas we	ll gas, casinghead g	as	
Fo transport 100	% of the Oil		from said lease.	
OTHER GATHE	RERS TRANSPORTING FRO)M THIS LEASE A	RE AS FOLLOWS:	
Name of gatherer	% transporte	ed Product	ransported	
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#1 to the Humble Navajo Trac available. This will be on permanent pipeline hookup.	ly temporary until	tank batter	ry & pipeline can be laid for	
The undersigned certifies that the rules and redrilling and producing operations on this lease	e, except as noted above, and ed from the above described	I mat the above train I property, and that ssion.	nservation Commission have been complled v nsporter is authorized to fransport the above sp this authorization will be valid until further	
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File Two Copies

Form No. 8

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HUMBLE OIL & REFINING COMPANY

DENVER, COLORADO 80201

DENVER DISTRICT

July 14, 1967

POST OFFICE BOX 120

Oil & Gas Conservation Commission, State of Arizona 1624 West Adams - Suite 202 Phoenix, Arizona 85007

Attn: Mr. John Bannister

Gentlemen:

By this letter we request the Oil and Gas Conservation Commission, State of Arizona, to keep all information on the following well confidential:

Navajo Tract 88 No. 1 SE SE Section 25-36N-29E Apache County, Arizona

All reports on this well will be clearly marked "Confidential." Your cooperation will be greatly appreciated.

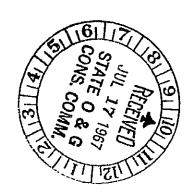
If any additional information is needed, please notify us and it will be furnished.

Very truly yours,

J. Roy Dorrough

District Superintendent

cc: United States Geological Survey
Navajo Tribe - Mr. Henry F. Pohlmann



DUNTY	Apache		AREA 9 mi	SSW Red	Rock LEASE N	Nav. 14-20-0603-8822
mta Cta	ta Petroleum	(5-1-94)	•			
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				6N RANGI	R 30E FOOTAGE	2310' FNL 1650' FWL
JCATION	DE NW	SEC 33	- IME -	on idition	STATUS STATUS	2310' FNL 1650' FWL TOTAL 9-10-67 DEPTH 4371'
LEV <u>7965</u>	GR 7981	KB SPU	JD DATE	8-6-67	COMP. DATE _	9-10-67 DEPTH 4371 4261 PBTD
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BOND CO.	_Firemen'	s Insuranc	e Co. D	M BO	BOND NO	-BND 188 98 10-528
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FILING RE	CEIPT 941	2				x PLAT BOOK x
API NO.	02-001-20	046	DATE ISSU	JED	WELL BOOK	
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PERMIT NU	MBER	<u> </u>		`	וועט	3-10-68
		-		(ove	r) Release	Date 3-10-68

DRILL STEM TEST RESULTS TO FROM NO. No cushion. Open 10 mins. SI 45 min. Open 90 mins. SI 45 mins. 41961 4109 1 ISIP 884 psi. IFP 78 psi. FFP 119 psi. FSI: 875 psi. Rec. 285' GCDM. Gas to surface in 5 mins at rate of 132 MCFPD. CORE RECORD RECOVERY REMARKS NO. FROM TO REMEDIAL HISTORY NEW PERFORATIONS DATE STARTED - COMPLETED WORK PERFORMED ADDITIONAL INFORMATION

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		,				同	COMM	33 12		A	GAS (CONSE	RVAT	ION C	IMMC	SSION Well Log	
D	•	422)			1/2	N O	ğ		No. 4	nbietion		One C			THE LAUR	
Permit No.	1)			\	VIT	顶杠		•							

(Complete Reverse Side)

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	<u> </u>	DETAIL OF FO	DRMATIONS PENETRATED *
Formation	Тор	Bottom	Description*
CHUSKA (TERTIARY)	Surface	2501	SANDSTONE.
CHINLE (TRIASSIC)	250 •	1243*	RED SHALE W/THIN STRINGERS SANDSTONE.
COCONINO (PERMIAN)	1243°	1984*	MASSIVE SANDSTONE W/SHALY STRINGERS IN LOWER 250.
CUTLER (PERMIAN)	1984•	3110'	SHALE, SANDSTONE AND LIMESTONE.
HERMOSA (PENN)	31101	3792	LIMESTONE, DENSE, W/RED & GRAY SHALE & THIN STRINGERS SAND.
MISSISSIPPIAN	3792	39781	LIMESTONE, DENSE, W/some varicolored shale at top.
DEVONIAN DOLOMITE	39781	4129*	DOLOMITE AND GREEN WAXY SHALE.
MCCRACKEN (DEVONIAN)	4129*	4230	SANDSTONE & QUARTZITE W/FEW STREAKS RED SHALE.
aneth (Devonian- Camerian)	4230°	43681	DOLOMITE & SHALE W/STRINGERS QUARTZITE & CONGLOMERATE AT BASE.
PRE_CAMBRIAN	43681	_ Tot.Dept	
DST. NO. 1	4109	4196	No cushion. Open 10 mins. SI 45 mins. Open 90 mins. SI 45 mins. SISIP: 884 psi. IFP: 78 psi. FFP: 119 psi
er bandisk (m . 2)		te Gra	FSI: 875 psi Recovered 285 gas cut drilling mud. Gas to surface in 5 mins at rate of 132 MCFPD.
10 14 7 70 4	5 (m) (m) (m) (m) (m) (m) (m) (m) (m) (m)		
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^{*} Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

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Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion report and well log shall be filed with the State of Arizona Oil & Gas Conservation Commission not later than thirty days after project completion.

Form No. 4

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Production (

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<u> </u>	<u> </u>	RT OIL OR GAS		Reservoir
ederal. State or Indian Lease Number, lessor's name if fee lease	Field	1. Dt V	1.	Hermosa
14-20-0603-8822		eh-BI-Keyah	<u> </u>	State
irvey or Sec-Twp-Rie	County	•] '	AZ
27, 28, 33, 34 T36N-R30E	Apac	ine	<u>l</u>	nu
perator				
Mountain States Petro	oleum Corp.		DNING THE FO	RM TO:
ADDRES		PONDENCE CONCE		State
treet	City	. 9		New Mexico 88202
P O Bx 1936	Roswel	LL,	<u> </u>	TILIT EMPLOY CONTO
above named operator authorizes (name of tr	ansporter)			
Ciant Industries				State
Ciant Industries Transporter's street address	City	3-3-		AZ
P O Bx 12999	Scotts	dale,	<u></u>	<u> </u>
Field address	_		400	•
P O Bx 256 (Bloomfield H	wy) Farmine	gton, NM 874	199	
	Oil, cond	ensate, gas well gas.	casinghead gas	
			. • •	from said lease.
ro transport 10	()% of the		<u> </u>	
OTHER GATH	erers transf	ORTING FROM TH	IS LEASE ARE	AS FOLLOWS:
Name of gatherer		% transported	Product trans	sported
	ļ			
	••		Ī	•
			l l	
indicate whether or not this certificate is i lease name, change of gatherer, or a conso	or a new lease. lidation or subd	If not a new lease, ivision of leases and	indicate whether is give effective da	er or not it is a change of operator, change of change.
Change of Oper.	regulations of th	se State of Arizona	Oil & Gas Conse	rvation Commission have been compiled with
Change of Oper. Change of Oper. The undersigned certifies that the rules and drilling and producing operations on this leapercentage of the allowable oil or gas product until cancelled by the State of Arizona O	regulations of th se, except as not seed from the ab ill & Gas Conserv	ne State of Arizona ed above, and that to cove described prope vation Commission.	Oil & Gas Conse the above transpo erty, and that thi	rvation Commission have been complied with rter is authorized to transport the above speci is authorization will be valid until further no
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Operator's Certificate of Compliance & Authorization to Transport Oil or Gas from Lease File Two Copies

Form No. 3

FORM APPROVED **UNITED STATES** Form 3160-5 Budget Bureau No. 1004-0135 Expires: March 31, 1993 DEPARTMENT OF THE INTERIOR (June 1990) 5. Lease Designation and Serial No. **BUREAU OF LAND MANAGEMENT** 14-20-0603- 8822 SUNDRY NOTICES AND REPORTS ON WELLS 6. If Indian, Allottee or Tribe Name Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT-" for such proposals <u>Navajo</u> 7. If Unit or CA, Agreement Designation SUBMIT IN TRIPLICATE 1N 423 1. Type of Well Well Name and No. Oil Gas Othe Navajo "C" 2. Name of Operator 9. API Well No. Kerr-McGee Corporation 02-001-20046 405/270-6023 3. Address and Telephone No. 10. Field and Pool, or Exploratory Area U.S. Onshore Region, P. O. Box 25861, Oklahoma City, OK 73125 Dineh-Bi-Keyah 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 11. County or Parish, State 2310' FNL & 1650' FWL Apache Co., AZ Sec. 33, T36N, R30E CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF ACTION TYPE OF SUBMISSION Change of Plans Notice of Intent Abandonment **New Construction** Recompletion Non-Routine Fracturing Plugging Back Subsequent Report Water Shut-Off Casing Repair Altering Casing Final Abandonment Notice Other Shut-in Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)* The long-term shut-in for the subject well expired 12-31-92. Kerr-McGee requests a one year extension to 12-31-93. ARIZONA 14. I hereby certify that the foregoing is tone and correct Regulatory Specialist (This space for Federal or State office use) Approved by _______ Conditions of approval, if any: Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, licitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

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	CERTIFICATE OF COMPLIANCE	AND AUT RIZATION
OPERATOR'S.	CERTIFICATE OF COMPLIANCE TO TRANSPORT OIL OR GAS F	ROM LEASE
deral, State or Indian Lease Number.	Field	Reservoir
· lessor's name if fee lease	Dineh-Bi-Keyah	Hermosa
14-20-0603-8822 Navajo C	County	State
S 33 - T 36 N - R 30 E	Apache	Arizona
perator		
Kerr-McGee Corporation		
ADDRES	S ALL CORRESPONDENCE CONCERN	NING THIS FORM TO:
itreet	City	State 70100
P. O. Box 250	Amarillo	Texas, 79189
Above named operator authorizes (name of tr	ansporter)	
Gary-Williams Energy		State
Fransporter's street address	City	Colorado, 80202
370 17th St., Suite 5300	Denver	1 00101 0003
Field address	NM 87413	
P. O. Box 159, Bloomfield,	Oil, condensate, gas well gas, ca	singhead gas
	On, condensate, gas were gue, or	
m	0% of the 011	from said lease.
*O (14(15)PO-1	ERERS TRANSPORTING FROM THIS	LEASE ARE AS FOLLOWS:
	% transported	Product transported .
Name of gatherer	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	ļ	
	1	1
Indicate whether or not this certificate is f lease name, change of gatherer, or a conso	or a new lease. If not a new lease, i lidation or subdivision of leases and g	ndicate whether or not it is a change of operator, change of ive effective date of change.
The undersigned certifies that the rules and drilling and producing operations on this lear percentage of the allowable oil or gas produor until cancelled by the State of Arizona OCERTIFICATE: I, the undersigned, under the Kerr-McGee Corporation report was prepared under my supervision and	regulations of the State of Arizona Oise, except as noted above, and that the need from the above described propertial & Gas Conservation Commission. The penalty of perjury, state that I am the company), and that I and direction and that the facts stated the company is the company of the c	a & Gas Conservation Commission have been complied with above transporter is authorized to transport the above specification, and that this authorization will be valid until further not the action of the authorized by said company to make this report; and that therein are true, correct and complete to the best of my knowled.
The undersigned certifies that the rules and drilling and producing operations on this lear percentage of the allowable oil or gas produor until cancelled by the State of Arizona OCERTIFICATE: I, the undersigned, under the Kerr-McGee Corporation report was prepared under my supervision and	regulations of the State of Arizona Oi se, except as noted above, and that the need from the above described propert il & Gas Conservation Commission.	ndicate whether or not it is a change of operator, change of the effective date of change. It & Gas Conservation Commission have been complied with above transporter is authorized to transport the above specification, and that this authorization will be valid until further not in authorized by said company to make this report; and that the terein are true, correct and complete to the best of my knowled. H. H. Rice Signature
The undersigned certifies that the rules and drilling and producing operations on this lear percentage of the allowable oil or gas produor until cancelled by the State of Arizona OCERTIFICATE: I, the undersigned, under the Kerr-McGee Corporation report was prepared under my supervision at 8/18/92 Date	regulations of the State of Arizona Oise, except as noted above, and that the need from the above described propertial & Gas Conservation Commission. The penalty of perjury, state that I am the company), and that I and direction and that the facts stated the company is the company of the c	a & Gas Conservation Commission have been complied with above transporter is authorized to transport the above specification, and that this authorization will be valid until further not the action of the authorized by said company to make this report; and that therein are true, correct and complete to the best of my knowled.
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Operator's Certificate of Compliance & Authorization to Transport Oil or Gas from Lease File Two Copies T command

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Form 3160-5	UNIT	ED STATES	FORM APPROVED Budget Bureau No. 1004-0135
(June 1990)	DEPARTMEN	r of the interior	Expires: March 31, 1993
	BUREAU OF L	AND MANAGEMENT	5. Lease Designation and Serial No.
		AND DEPORTS ON WELLS	14-20-0603-8822
_		AND REPORTS ON WELLS	6. If Indian, Allottee or Tribe Name
Do not	use this form for proposals to driv	Il or to deepen or reentry to a different reservoir. R PERMIT—" for such proposals	Navajo
			7. If Unit or CA, Agreement Designation
		IN TRIPLICATE	4
I. Type of Y			B. Well Name and No. PN 422
2. Name of			Navajo "C" #2
	-McGee Corporation		9. API Well No.
	and Telephone No.	405/270-6023	02-001-20046
II.S.	Onshore Region, P. O. Box	28561, Oklahoma City, OK 73125	10. Field and Pool, or Exploratory Area
4. Location	of Well (Footage, Sec., T., R., M., or Survey De	escription)	Dineh-Bi-Keyah
00101	I my c 16501 MH		11. County or Parish, State
	' FNL & 1650' FWL 33, T36N, R30E	•	Apache Co., AZ
	=	s) TO INDICATE NATURE OF NOTICE, REPO	RT. OR OTHER DATA
12	TYPE OF SUBMISSION	TYPE OF ACTION	
	[]	П	Change of Plans
	Notice of Intent	Abandonment .	New Construction
	নি <u>.</u>	Recompletion Plugging Back	Non-Routine Fracturing
	X Subsequent Report	Casing Repair	Water Shut-Off
	Final Abandonment Notice	Altering Casing	Conversion to Injection
	Final Additionment Noice	X Other Mechanical Integrit	Y Dispose Water
	•	Test	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
13. Describ	oe Proposed or Completed Operations (Clearly state a	Il pertinent details; and give pertinent dates, including estimated date of starti	
gî	ve subsurface locations and measured and true verti	cal depths for all markers and zones pertinent to this work.)*	
See	attached		
	232	425262722	
	Silve .		
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	(6/BI	2 25 E	
		′ № 6 € ~)	
		₹35 W	
	(c)		
	66.	0 kg	
	161	11,01,000	
			•
14. I bere	by certify that the foregoing is true and correct	D1 an (One -4 a14 -4	Date 7-15-92
Signe		Tide Regulatory Specialist	Date 7797
(This	space for Federal or State office use)		
Appro	oved by	Title	Date
Cond	litions of approval, if any:		

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

STEATER !

NAVAJO C-2 Dineh-Bi-Keyah Field

MECHANICAL INTEGRITY TEST

MI & RU hot oiler to 2" WKM valve on 7" csg. Pumped & loaded 7" csg w/1 BFW treated w/Tretolite CRO-147G Corrosion Inhibitor, XC-370 Bactericide chemicals. Pressure tstd 7" csg to 600 psi on pressure gauge & chart. Pressure held for 30 mins & held. Release pressure & release hot oil unit to next location.

Chart recording attached.

NOTE: Notify Mark Keely w/BLM; Arlene Luther w/Navajo Tribal EPA; Steve Rauzi w/Arizona Oil & Gas Commission. Above agencies were not present to witness pressure testing.

SUPERVISOR: Ray Benally

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TYT A P.M. Ç. 008

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orm 3160-5		D STATES	Budget Bureau No. 1004-0135
June 1990)	DEPARTMENT	OF THE INTERIOR .ND MANAGEMENT	Expires: March 31, 1993 5. Lease Designation and Serial No.
	BUKEAU OF LA	IND MANAGEMENT	14-20-0603-8822
	SUNDRY NOTICES A	ND REPORTS ON WELLS	6. If Indian, Allottee or Tribe Name
Do not use this for	rm for proposals to drill	or to deepen or reentry to a different reservoir. PERMIT—" for such proposals	Navajo
		N TRIPLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well			
Oil Gas Well Name of Operator	Other		8. Well Name and No. Navajo "C" #2
Kerr-McGee Corp	oration		9. API Well No.
3. Address and Telephone N	io.	405/270-6023	02-001-20046 10. Field and Pool, or Exploratory Area
U.S. Onshore Re	egion, P. O. Box 20	3561, Oklahoma City, OK 73125	
4. Location of Well (Footag	ge, Sec., T., R., M., or Survey Des	cription)	Dineh-Bi-Keyah 11. County or Parish, State
	!	_	Ti. County of Casas, 5—
	310' FNL & 1650' F	MP	Apache Co., AZ
	ec. 33, T36N, R30E	THE PERSON NEWS	
12. CHECK	APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPO	HI, OR OTHER DATA
TYPE OF	SUBMISSION	TYPE OF ACTION	l
		Abandonment	Change of Plans
Notice	of Intent	Recompletion	New Construction
П.	Daniel Daniel	Plugging Back	Non-Routine Fracturing
LL Subseq	uent Report	Casing Repair	Water Shut-Off
□ Finel 4	Abandonment Notice	Altering Casing	Conversion to Injection
، عبریا ک	(Carabination and Annual and Annu	Other Mechanical Integrity	Dispose Water (Note: Report results of multiple completion on Well
		Test pertinent details, and give pertinent dates, including estimated date of start therefore all provinces and zones pertinent to this work.)*	Completion or Recompletion Report and Log torm.)
The long term	a shut in for the	subject well expired December 31, 192	991. Kerr-McGee would like
The casing i	ntegrity will be t	ested to allow the well to remain is deferred until late spring or earline test will be conducted prior to J	n a shut in status. Kerr y summer due to the curren
			• •
			.•
			•
· / _	the foregoing is true and correct	. Bunas Tide Analyst II	Date
Signed	eral or State office use)		
		Tieta	Date
Approved by Conditions of appro	val, if any:	Title	
Title 18 U.S.C. Section	1001, makes it a crime for any pers	on knowingly and willfully to make to any department or agency of the §	Inited States any false, fictitious or fraudulent stateme
or representations as to	any matter within its jurisdiction.	+Sax Instruction on Payarea Sida	
		TURN INCIDION OF MOVATCA NICE	

*See Instruction on Reverse Side

PN 422

OIL AND GAS CONSERVATION COMMISSION

PERMIT 422

REPORT ON PROPOSED OPERATIONS

Oklahoma City, OK 73125	June 1, 1988	
Your proposal to flow test we	11 No. 2 Navajo-C ,	
A.P.I. No. 02-001-20046 , Section	33 , T. 36N. , R. 30E., G&SR	B. & M.,
Dineh-Bi-Keyah field,	area, McCracken	_pool,
Apache county, dated 5/27/88 re	ceived 5/31/88 has been exami	ined in
conjunction with records filed in this office	•	

The complete results of the flow test are filed with the Commission within 30 days after completion of such test.

D. J. BRENNAN, Executive Director

BOND Blanket

A COPY OF THIS REPORT AND THE PROPOSAL MUST BE POSTED AT THE WELL SITE PRIOR TO COMMENCING OPERATIONS.

RECORDS FOR WORK DONE UNDER THIS PERMIT ARE DUE WITHIN 30 DAYS AFTER THE WORK HAS BEEN COMPLETED OR THE OPERATIONS HAVE BEEN SUSPENDED.

T essess

ourspekterik

Form 3 18.2-5 UNITED-STATES SUBMIT IN TRIPLICATES (November 1983) (Formerly 9-331) BUREAU OF LAND MANAGEMENT	Budget Bureau No. 1004-0135 Expires August 31, 1985 3. LEASE DESIGNATION AND SERIAL NO. 14-20-0603-8822 6. IF INDIAN, ALLOTTEE OR TRISE NAME
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.) MAY 2 1 1988	Navajo 7. Unit agreement hame
2. NAME OF OPERATOR Kerr-McGee Corporation 0 & 2 CORS. U.D.D.	8. PARM OR LEASE NAME Navajo "C" 9. WELL RO.
U.S. Onshore Region, Box 25861, Oklahoma City, OK 73125 Location of Well (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2310 * FNL & 1650 * FWL	2 10. FIELD AND FOOL, OR WILDCAT Dineh-Bi-Keyah 11. ESC. T. R. M. OR BLK. AND SURVEY OR ARMA Sec. 33, T36N, R30E
14. PREMIT NO. 15. BLEVATIONS (Show whether DV, NT, CR, etc.) 422 AZ 7965 GR	Apache AZ
TEST WATER SHUT-OFF PCLL OR ALTER CASING PRACTURE TREAT SHOOT OR ACIDIZE ABANDON* CHANGE PLANE (Other) PRACTURE TREATMENT SHOOTING OR ACIDIZING (Other)	B of multiple completion on Well pletion Report and Log form.)

Kerr-McGee Corporation requests approval to flow test the above well for seven days at approximately 500 MCF/D. The zone to be tested is the McCracken and the gas will be vented as its hydrocarbon content is too low to sustain a flare. The test is necessary to accurately estimate the field deliverability of helium. A seven day BHP survey will be run immediately after the flow period.

A current wellbore schematic is attached.

8. 1 hereby certify that the foregoing is true and cor	ect Analyst II	
(This space for Federal or State office use)	TITLE Enf. Directo	DATE 5/31/88
conditions of Approval, if and:	-	
Oil & Gas Conservation Co Suite 190	mmission *See Instructions on Reverse Side	

3110 N. 19th Ave.

Title 18 U.S.C. Settlen 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

O

NAVAJO C-2 Section 33-36N-30E Apache Co., AZ

32.3 ST&C 8rd 3451 H-40 9 5/8 CASING 43711 WELL SCHEMATIC ST&C 8rd J-55 5 1/2 14 & 15.5 CASING 40951 FIE 8rd DEPTH DESCRIPTION OF EQUIPMENT 3451 9 5/8" csg Baker Model with 12,000# Raker Model 'G' compression packer set McCracken perfs 4134-40, 4154-59, 4179-87 4212-20 1SPF Aneth perfs squeezed with 150 sx 4551-61, 4237-36 4371' 5 1/2" csg G5-5-88 S. R. Drost

Ω

_2-USGS-Roswell 2-Arisona 1-Tribe 1-JIF 1-Lee.File 1-RF

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Form approved. Budget Bureau No. 42-R714.4.	
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ALLOTTEE NAVAJO---

DINKH-BI-KEYAH

TRIME 14-20-0603-8822 LEASE NO. NAVAJO MCM 18ASE

LESSEE'S MONTHLY REPORT OF OPERATIONS

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Cra.	.4.		CZONA		Co	APA(Fie	ld	KH-BI-KE	
Sta	The	follo	wing	is a	correc	report of c	perati	ons and pro	duction (i	nclyding d	rilling and producin
we	lls) fo	or the	mon 2	th of 15 F	etrol	em Center	Bidg.	., 10	K	err-McCe	Cerpoyation /
Αg	ent's	addr				New Meach		401	npany ned	10/1	MM
Ph	one.			27-9	_				ent's title	Product	ion Supt.
SE M	C. AND	Twr.	RANGE	WEIL No.	Days Pagettern	BARRELS OF GIL	GRAVITY	Cu. Fr. or GAS (In thousands)	GALLONS OF GASOLINE BECOVERED	BARRELS OF WATER (II none, so state)	REMARKS (If drilling, depth; if shut down, cause date and result of test for gusoline centent of gas)
 SM	33	36H	308	1	None		LOCA	ION.		1	
.Wi	33	36N	30 B	(2)	None		SHUT	in gas we	L.		
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										F	TEILING
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HO _ runs or sales of oil; M. cu. ft. of gas sold; Note.-There were

Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329 A (December 1948)

U.S. GOVERNMENT PRONTING OFFICE: 1964-O-746-790

2-USGS-Roswell 2-Arisona Luif 1-Tribe 1-WRF 1-RF

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Form approved. Budget Bureau No. 42-R714.4.
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NAVAJO 14-20-0603-8822

LESSEE'S MONTHLY REPORT OF OPERATIONS

NAVAJO "C" LEASE

DINEH-BI-KEYAH

State The wells) f	follo			correc		PACHE operati		Field . rodu		faylar.	rilling and producing
Agent's	addr	ess . 2	15.P	etrole	um Center	Build	ing c	ompo	my	Kery-Md0	e Corporation
		F	armi	ngton,	New Merch	90 6	17401 S	<i>igned</i>	<i>t</i>	No.	an Sunt
Phone		3	27-9	637			<i>_</i>				eemares
H or H	Twr.	Range	WRIL No.	DATE PRODUCED	BARRIE OF OIL	GRAVITY	Cu. Fr. or C. (In thousands	. 6	PCOARFED STROIGE STROIGE	RAPRELS OF WATER (II 1900s, so state)	(Il drilliog, tepth; if shut down, cause; date and result of test for gasoline context of gas)
SESW 33	361	30£		None	1						Compared with
SKM 33	36N	30E	2	None	فد ه ا	K	PBTD 426]	L 4 4212	Pari :	Acidise	t. Zone was not 4134*-40*; d with 2000
					gallons	Mad A	eid. Fr	TC M	LE 37	JOHO EGIL	ons 3% Acid Shat-In Gas
						A4 W	000f sai	in.	بهرته	67 McCra	eken tested FTP of 100 psi.
					Est. 8	poje i	or gra a	ater	produ	tion.	
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Norg.-There were Norz.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

_ runs or sales of oil;

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U.S. GOVERNMENT FRONTING OFFICE: 1964--O-748-790

M. cu. ft. of gas sold;

Form 9-331 (Mag 1963)		U、 TED STATES	//>/	IT IN TRA CATES	Budget	Bureau No. 42	2-R1424.
(310) 1000)	DEPAR	TMENT OF THE INT	ERIOR Terse	ide)	D. LEASE DESIGN		IAL NO.
		GEOLOGICAL SURVEY	(14-20-0		
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(7)	UNDKY NO	JICES AND REPORT	olve back to a diff	erent reservoir.	Have to	를 걸 경	
(Do not ase	Use "APPI	posals to drill or to deepen or in ACATION FOR PERMIT—" for s	uch proposals.)		के वे राज्य हैं	4 F 5	
1.			· · · · · · · · · · · · · · · · · · ·		7. UNIT AGREEM	ENT NAME	
OIL GA	ELL OTHER	ı					
2. NAME OF OPERAT	ron				8. PARM OR LEA	BE NAME	
Francisco Marie	- Comment	4.00			ways.		
3. ADDRESS OF OPE	RATOR				9. WELL HO.	1 B H L #	
215 Fetre	Journ Courte	r Beilding, Farming	ton, Nor K	mice 87401	- [등 분) 시 및	- 번의 및 <u>위</u>	
4. LOCATION OF WE	LL (Report location	on clearly and in accordance wit	h any State require	ments.*	10. PIELD AND I	OOL, OR WILDC	AT
See also space 1 At surface	i7 below.)				I Line	d-Legish	
2310 PE	L & 1650° I	rel			11. SEC., T., R.,		,
	736E, R30				500. 3	7364.	2 902
,,,,					CALFIN		
14. PERMIT NO.	1	15. BLEVATIONS (Show when	ther DF, RT, GR, etc.)		12 COUNTY OR	PARISH 13. 8	FATE
State No	L02/	2065 60			in the same	E APA	2000
				1 · D	مَا يُعْمَانِهُ مِنْ		
16.	Check	Appropriate Box To Indic	ate Nature of F			. ផ្ទៃទី	
	NOTICE OF I	NTENTION TO:	1	20851	QUENT REPORT OF		
TEST WATER S	HIEROPE TO	PULL OR ALTER CASING	WAT	ER SHUT-OFF	ing a ser	THE THELL]
FHACTURE TRE	iI	MULTIPLE COMPLETE	PRAC	TURE TREATMENT	X 35 5 5 ALE	BRISG CASING	
SHOOT OR ACI		ABANDON*	i	OTING OR ACIDIZING	T BEEF ABA	NDONMENT	
REPAIR WELL		CHANGE PLANS	(0t	er) Perferet		<u> </u>	
	ii		1 1 '	(Note: Report resu Completion or Recor	its of multiple com	pletion on Wel	1
(Other)	OPPD OR COMPLETE	D OPERATIONS (Clearly state all p	ertinent details, a	nd give pertinent det	es including estimi	ited date of st	arting any
proposed we	ork. II wen 15 co	rectionally drilled, give subsurfa-	ce locations and m	easured and true ver	tical depths for all		
nent to this	work.)			į	8 경찰병환 .		3
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TITLE Production Securitation

*See Instructions on Reverse Side

TITLE

18. I hereby co

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(This space for Federal or State office use)

APPROVED BY CONDITIONS OF APPROVAL, IF ANY:

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C. saa		TTED CTA	TEC	SUBMIT IN THE ICAT	Form approved.
orm 9–531 May 1963)	DED 4 D7	TED STA	IES E INTEDIO	1015 Inches of the	Budget Bureau No. 42-R1424 Te 5. LEASE DESIGNATION AND SERIAL NO.
	DEPARI	MENT OF TH		If Acted sine)	74 20 0603-8822
		GEOLOGICAL S	URVEY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
CLIN	IDRY NO	TICES AND RI	EPORTS OF	N WELLS	
(Do not use this			anan ay ning beel	b to a different reservoir.	- 過点班 <u>41</u>
(20 100 100	Use "APPLI	CATION FOR PERMIT	'-" for such prop	OSR(5,)	T. UNIT AGREEMENT NAME
					TO CONTRACT TO THE PARTY OF THE
MELL MELL GYR	OTHER				8. PARMIOR LEASE NAME
NAME OF OPERATOR					O. FARRIOR LEADER NAME
Kerr-McGee C	orporatio	311 <u> </u>			NAVAJO
. ADDRESS OF OPERATO	R	-			9. WELLINO.
215 Petroley	m Center	Bldg Fa	rmington,	New Mexico	C - 12
LOCATION OF WELL (See also space 17 be	Report location	clearly and in accord	iance with any St	ate requirements.*	10. VIRID AND POOL, OR WILDCAT
At surface	,				Diseb-to-Leyen
2310' FNL &	1640° FM	t.			11. BEC, T., B., M., OR BLE, AND SURVEY OR AREA
Sec. 33, T36	N B30K	CASRM			860. 33, T36H, R30E
יעב פעע פיספע	My MJUL				GASEON
4. PERMIT NO.		15. ELEVATIONS (Show whether DF. R	rr, GR, etc.)	12. COUNTY OF PARISH 18. STATE
State No. 42	2	79651	CIR.		Apcoho
TEST WATER SHUT FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL	NOTICE OF IN	TENTION TO: PULL OR ALTER CAS MULTIPLE COMPLET ABANDON® CHANGE PLANS	<u> </u>	WATER SHUT-OPP PRACTURE TREATMENT SHOOTING OR ACIDIZING (Other) Perform (Note: Bepart to	sults of multiple completion on Well
(Other)					completion Report and Log form.) dates, including estimated date of starting cortical depths for all markers and zones pe
proposed work nent to this work 5-1/2* 4366*	Casing se Perf cas	et at 4371', sing the side of the cidined with som tubing.	Maye in o eac) with 1 2000 gallor Squeezed W	ons and measured and true volume to the volu	d drill out demant to a colo) from 4351 4361 6 Max. Pressure 2200 4 Coment, with

*See Instructions on Reverse Side

CONFIDENTIAL

(This space for Federal or State office use)

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DATE Sept. 7, 1967

P. 18" could be invested by a least of the l

DEPARTMENT OF THE INTERIOR verse side) Form approved. Budget Bureau No. 42-R1424. Form 9-331 (May 1963) 5. LEASE DESIGNATION AND SERIAL NO. 14-20-0603-8822 GEOLOGICAL SURVEY 6. IF INDIAN, ALLOTTEE OR TRIBE NAME SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.

Use "APPLICATION FOR PERMIT—" for such proposals.) MÁVA JO 7. UNIT AGREEMENT NAME OIL WELL CAS OTHER 8. FARM OR LEASE NAME. 2. NAME OF OPERATOR MAYAJO "C" Kerr-Nodee Corporation 9. WELL NO. 3. ADDRESS OF OPERATOR 215 Petroleum Center Bldg. - Farmington, New Mexico 10. 2 10, FIRED AND POOL, OR WILDCAT 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.

See also space 17 below.)

At surface Dimeh-bi-Keyah Sec. 33 - T36# - R30E 11. SEC., T., R., M., OR BLE, AND SURVEY OR ABEA 2310' FML & 1650' FWL 500.33-736E-R30E OASRN **GLARM** 12. COUNTY OR PARISH 13. STATE 15. ELEVATIONS (Show whether DF, RT, GR, etc.) 14. PERMIT NO. Arisona odesqa 7965' GR State No. 422 Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data SUBSEQUENT EMPORT OF: NOTICE OF INTENTION TO: REPAIRING WELL WATER SHUT-OFF PULL OR ALTER CASING TEST WATER SHUT-OFF ALTERING CASING PRACTURE TREATMENT MULTIPLE COMPLETE FRACTURE TREAT BHOOTING OR ACIDIZING ABANDON* SHOOT OR ACIDIZE Zotal Depth CHANGE PLANS (Norz: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) REPAIR WELL 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) * Drilled 8-3/4" hele to 4371". Set 5-1/2" O.D., 14# 4 15.5# 2-55. STEC casing at 1371! REE. Comented with 175 sacks 50-50 Posmix with he gol and 1/he flocele/sack followed by 50 sacks neat coments. Used pump and plug method. Released pressure. Floats held OK. Tested easing to 1000 psi for 30 minutes. Held OK. Moved out. Retary Rig. Moved in completion unit for testing. CONFIDENTIAL 18. I hereby certify that the Production Supt. TITLE SIGNED (This space for Federal or State office use)

422

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BX

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*See Instructions on Reverse Side

TITLE

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9 kg 19 kg 19 kg

USGS - 2 UNITED STATES Ariz. - 2-ALLOTTEE NAVE JO DEPARTMENT OF THE INTERIOR Tribe - 1 TRIME -- 14-20-0603-8622 J.I.F. - 1 GEOLOGICAL SURVEY LEASE NO. Lee File - 1 RF - 1 LESSEE'S MONTHLY REPORT OF OPERATIONS Navajo "C" Lease Dineh-bi-Keyah County Apache State Arisona The following is a correct report of operations and production (including drilling and producing 19.67 August wells) for the month of Kerr-McGes Corporation Agent's address 215 Petroleum Center Building Farmington, New Mexico 87401 Production Superintendent Agent's title. Phone 327-9637 GAILONS OF GASOLINE BECOVERED BARREIS OF WATER (If none, so state) Cu. Fr. or Gas (In thousands) BARREIS OF OIL GRAVITY SEC. AND H OF H TWP. RANGE Location. None 1 SESW 33 36N 30E Spud 8-6-67. Set 9-5/8 at 345. Drlg to 4371 and set 5-1/2" easing at 4371. Perf casing (Ameth Zene) from 4351. 4361, 4327. 4336. Swab tubing dry. Will test well further. 36章 30章(2 1 None SEEM 33

runs or sales of oil;

duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

runs or sales of gasoline during the month. (Write "no" where applicable.)

Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in

No

Note.—There were .

16-28231-7 U.S. GOVERNMENT PRINTING OFFICE

M. cu. ft. of gas sold;

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Form approved. Budget Bureau No. 42-R714.4. GERMANIE |

TUBSELLING

Dele: Bud W. 8.58.69

Lid Not fower igneous intrusine

TD 4371; (There rund 5/2")

Will test for gas Januar Lelow Ferm.

(Pro nig has moved to H.I location.)

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Contractor Rolling 3	Date/
Spud Date	Rotary) Walter Greblet Dnillez
Type Rig	Cable Tool Present Operations
Samples	Drilling with Mud
Water Zones	Size Hole
Lost Circ. Zones	Size Drill Pipe
Formation Tops	Type Bit Drilling
Cores, Logs, DST	
	Formation
Crews	Lithology
REMARKS, PHOTO, MAP	A.M. 1 56 Les per aux
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WELL NAME

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Form 9-331		UNITED STAT	res		TRIPEICATE		m approved. Iget Bureau No. 42-	R1424
May 1963)	DEPART	MENT OF THE	e interio)K Actes alge)	uctions on ie	U. LEASE DES	SIGNATION AND BERIA	L NO.
		GEOLOGICAL S	URVEY				0603-8822	NAME
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(Do not use thi	is form for prop	osals to drill or to dec CATION FOR PERMIT	epen or plug bac	ck to a different r	reservolr.	NAVAJO) ^년 - 명품이	
	Use "APPLIC	JATION FOR PERMIT	- for such pro-			1 =	EEMENT NAME	
OIL GAS WELL	OTHER					1 3 3	् ^{५ र} त है।	
WELL TO WELL							LEASE NAME	
Kerr-MoGe	e Corpor	ation				NAVA-J(10.00	
. ADDRESS OF OPERAY	Ne					9 WALLENO.		
215 Petro	leum Cen	ter EldgF	ermingto	on, New M	exico	NO. 2	ND:POOL: OR VELLOCAT	<u> </u>
See also space 17 b	(Report location elow.)	clearly and in accorda	ance with any 5	state requirements.			-bi-Keyah	
At surface	6 34E01	FWL - Se	A. 33-T	36N-R 30%	O&3RM	11. BSC., T.,	R. M. OR BLK, AND	
5310. IND	. & 1000·	140 - De		عور ، د- ارور		Sec.	33-236N-R3	30
						The state of the s	3 5 4 6 648	
14. PERMIT NO.	())	15. BLEVATIONS (S		RT, GR, etc.)		1 7 2 2 2	OR PARISH 13. STA	
State/No.	422	76	965' OR			Apache	h i Aris	one
16.	Check	Appropriate Box To	o Indicate No	ature of Notice	Report, or	Other Data	300 meg.	
	NOTICE OF INT		1	<u> </u>		QUENT ERPORT	or: 355	
~	Γ]		[]		Г	YI Dari	REPAIRING WELL	_
TEST WATER SHUT	L-OXB	PULL OR ALTER CASI	11	WATER SHU	TREATMENT	7 3 7	ALTERING CABING	-
PRACTURE TREAT	<u> </u>	ABANDON ^a	* 		OR ACIDIZING	~~~~~ 다 그 년 상	ABANDONMENT	
SHOOT OR ACIDIZE REPAIR WELL		ADAMPO.	}} i				The Aller 😿	X
	1 1	CHANGE PLANS	1 1	(Other) _			 	
(Other)		CHANGE PLANS		(Nort	s · Report resul	ts of multiple ipletion Report	completion on Well and Log form.),	====
(Other)	OR COMPLETED	anni stava (Gladia at	tate all pertinent	(North	s: Report resul pletion or Recon	pletion Report	and:Log form.). timated date of star	rting a
(Other)	If well is dire		tate all pertinent subsurface locati	(North	s: Report resul pletion or Recon	pletion Report	and Log form.). timated date of star all markers and zon	ten ber
(Other) 17. DESCRIBE PROPOSED proposed work, nent to this worl	If well is dire k.) •	operations (Clearly st ectionally drilled, give	subsurface locati	(North Compited the details, and give ions and measured	s. Report resulpletien or Recon e pertinent dati d and true vert	es, including es	and Log form.). timated date of star all markers and zon	ten ber
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*See Instructions on Reverse Side

AR IZENA

		(- Samuel		
APPLICATI	ON FOR PERMIT	T TO DRILL OR	RE-ENTE	R	
APPLICATION TO DRILL			RE-ENTER OL		
Kerr-McGee Corporation	;	÷			
AME OF COMPANY OR OPERATOR					
ons D. C. Janes Gambon Die	- Form	ington,	. New	Mexico	
215 Petroleum Center Blo	City			State	
					,
Unknown at this time. I	Will probably	y be Pico Dr.	illing o	ompany.	
Farmington, New Mexico					
ddress]
	DESCRIPTION OF	WELL AND LEASE			
ederal, State or Indian Lease Number, or if fee	lease, name of lessor	Well number		Elevation (ground)	
14-20-0603-8822	Navajo "C"	No. 2		7965 GR	
Vearest distance from proposed location o property or lease line:	16501	Distance from propose completed or applied-	ed location to n -for well on th	e samé lease:	
	1650 t			26201	feet
Number of acres in lease:		Number of wells on le completed in or drilling	ease, including	this well, voir:	
	2560			None.	
If lesse purchased with one or more Nar	2560	1	Address	170110 6	
f lesse, purchased with one or more Nar veils drilled, from whom purchased:	••				1
None.			-	Dedication (Comply v	ulth Pula 105)
Well location (give footage from section lines)		vnship—range or block a 3-T36N-R30E		NW/4 Sec.	•
2310 FNL & 1650 FWL Field and reservoir (if wildcat, so state)	i pec.	County	GOOTER	THING DOOD	
Dineh-bi-Keyah Field		Apache Co	unty, A	rizona	
Distance, in miles, and direction from nearest to					
9 miles S,SW Red Rock,	Arizona Rotary or cable tools		Approx. de	ite work will start	
Proposed depth: 4300 f	Rotary & Cal	ole Tools	8-7-6	7	
Bond Status Blanket Bond	Organization Report		Filing Fee		
Amount	On file XX	Or attached	Attached	Yes	
Remarks:					1
New Well					
Covered by Commis	sion Order No	o. 21.		•	
· · · · · · · · · · · · · · · · ·			•	• •	. [
CERTIFICATE: I, the undersigned, under the	penalty of perjury, st	ate that I am the	Product	ior Supt.	of the
				ny to make this remort	: and that this
Kerr-McGee Corporation report was prepared under my supervision and	(company), a direction and that the fac	no that I am authorized its stated therein are fru	e correct and o	complete to the best of	y knowledge.
			V. ()	ulli	مسمه
		Signature		F	
		Jul	y 28, 19	967	
·		Date		/	115/12
			, ,		200
Permit Number:		_]			A F
Approval Date: 7-31-57		_	STATE O	OF ARIZONA	
achall som	miller	OIL & C	JAS CUNSER	Drill or Relenger	30 3 E
Approved By:	10000		Application	Ditte of the female.	1967 1967
Notice: Before sending in this form be sure all information requested. Much unn ence will thus be avoided.	that you have given ecessary correspond-				≤ດວິ
ence will thus be avoided.	• •	Form No. 3		Ϋ́	7

SHY OF

API 02-001-20046

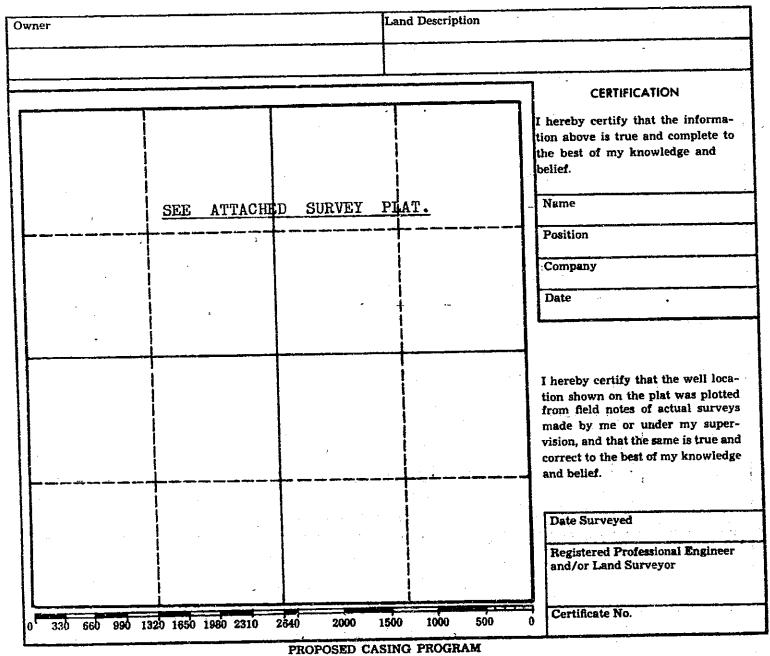
(Complete Réverse Side)

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- Is Operator shall outline the dedicated acreage for both oil and gas wells on the plat.
- 2. A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
- 3. All distances shown on the plat must be from the outer boundaries of the Section.

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- 4. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES XX NO
- 5. If the answer to question four is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES______NO_____. If answer is "yes," Type of Consolidation______
- 6. If the answer to question four is "no," list all the owners and their respective interests below:



Sacks Cement **Cementing Depths** Size of Casing Grade & Type Bottom Sufficient to circ. 0 - 3001 3001 9-5/8" OD 32.30 H-40, ST&Q 0 3600° 25001-36001 150 sxs. 20# J-55ST&C probably be drilled to Granite, If Intrusive is not present, well will probabland 7" casing set hru productive zones, if ? encountered. y are

O

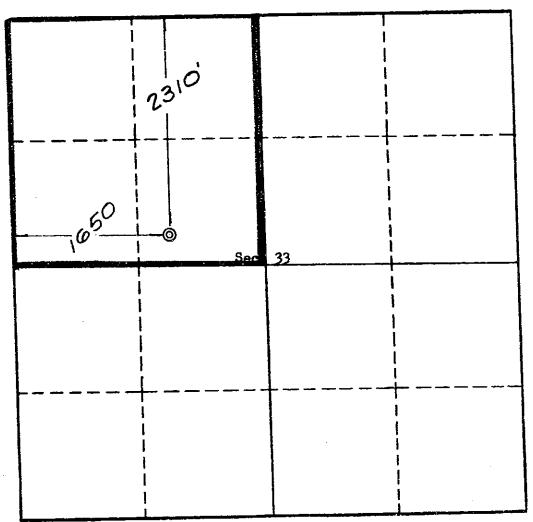
Company Kerr-McGee Corporation

Well Name & No. "C" #2 Navajo

Location 2310 feet from the North line and 1650 feet from the West line.

Sec. 33 , T. 36 N., R. 30 E., G. & S. R. M., County . Apache , Arizona

Ground Elevation . 7965, ungraded.



Scale, 1 inch = 1,000 feet

Surveyed July 12

., 19..67

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the

best olymp knowledge and belief.

Seal:
ERNEST V.
ECHTHAWK

Ernest V. Echohawk Registered Land Surveyor Arizona Registration No. 2311 STATE COMM. STATE

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PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION, STATE OF ARIZONA,

o:KEI	R-MCGEE CORPORATION	·	
V	(OPERATOR)		
to	drill a well to be known as		
KER	-HCGEE #C-2 NAVAJO		
	(WELL NAME)		
ocated 2310° FNL and	650' FWL		
ection 33 Township 3611		Apache	_County, Arizona.
heNW/4			of said
ection, Township and Range is ded			
n full compliance with all applicable			
Issued this day of			•
	OIL AND GA	S CONSERVATION	COMMISSION
	- John	1 Banani	:: <i>V</i>
	By 7710/10	JUVYVYVAS	uer-
	By January	EXECUTIVE SECRET	ARY
permit Nº 422	Ву	EXECUTIVE SECRET	·

Oil & Gas Conservation Commission

Permit to Drill

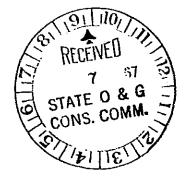
FORM NO. 27

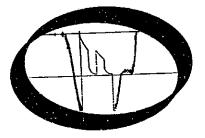
API 02-001-20046

9512

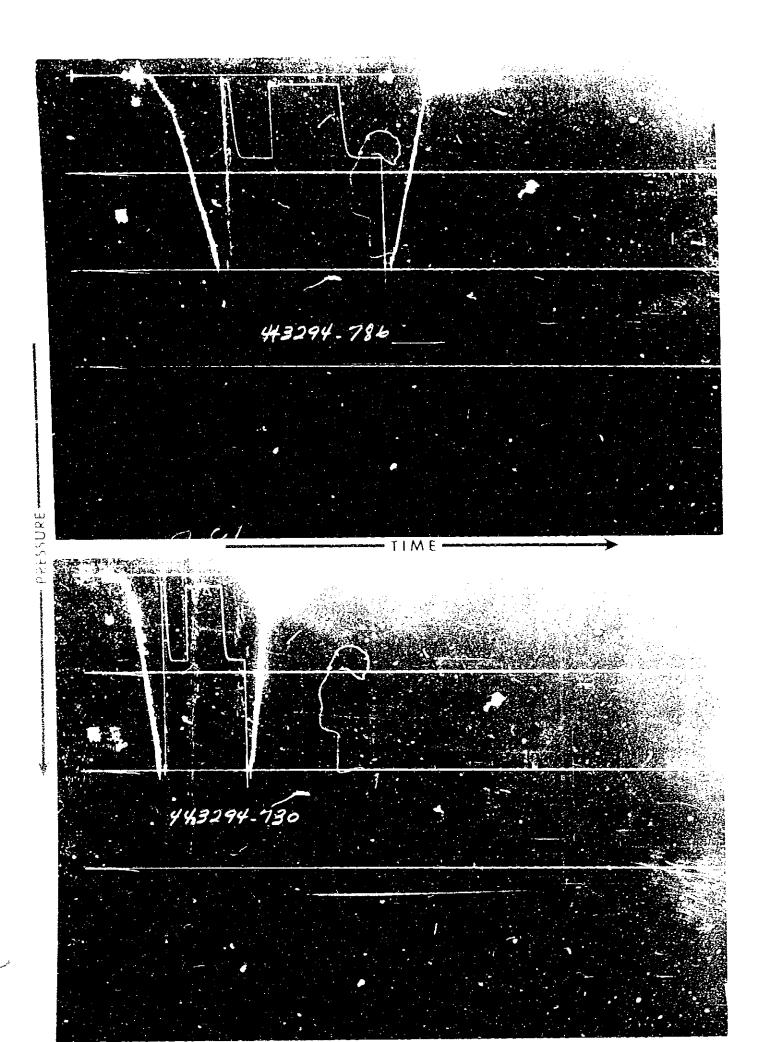
RECEIPT NO.

Formation Testing Service Report





HALLIBURTON COMPANY



Each Horizontal Line Equal to 1000 p.s.i.

Gaug	e No.	786	Depth	409 Initial		Clock 12 Seco	nd		Final	
	Flow P		Clas	ed In Pressu		Flavr F		<u> </u>	ed In Pressu	
3	Time DefL .000*	PSIG Temp. Corr.	Time Deff. .000"	Lc3 t+0	PSIG Temp. Corr.	Time Deft.	PSIG Temp. Corr.	Time Daft. .000"	Lcg t+0	FSIG Temp. Corr.
P _o	.000	26	.000		71	.000	71	.000		97
Pı	.010	44	.034		683	.0872	92	.034		711
P ₂	.620	53	.068		845	.1744	94	.068		833
p ₃	.030	61	.102		852	.2616	96	.162	<u> </u>	848
P ₊	.040	65	,136		853	.3488	92	.136		849
p _s	.050	71	.170		855	.4360	92	.170	<u> </u>	851
P ₆			. 204		855	.5230	97	. 204		852
P,			. 238		855			.238		853
P ₈			.272		855			.272		853
p,			.306		855			.306		853
P ₁₀							<u> </u>			
Ga	uge No.	730	Dep	th	4193*	Clock	24	hour		1
Po	.000	78	.000		102	.000	114	.000		119
P ₁	.0052	86	.0183		645	.046	1.20	.0186	<u> </u>	707
P2	.0104	90	.0366		863	.092	119	.0372		855
P ₃	.0156	95	.0549		880	.138	119	.0558		869
P ₄	.0208	93	.0732		883	.184	115	.0744	 	871
P _s	.0260	102	.0915		883	.230	115	.0930	<u> </u>	87
_∂ P ₆			.1098		884	.276	119	.1116		87
P ₇			.1281		884			.1302		87
P ₃			.1464		884			.1488	3	87
Po			.1650		884	_		.1670)	87
Pic							15 _			
	ding Interval MARKS:	2	!!	5		- 11				

SPECIAL PRESSURE DATA

Each Horizontal Line Equal to 1000 p.s.i.

22.17

che County

NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b,	= Approximate Radius of Investigation (Net Pay Zone hi)	Feet
D.R.	.= Damage Ratio	
El	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h,	== Net Pay Thickness	Feet
K	== Permeability	md
K ₁	== Permeability (From Net Pay Zone hi)	md
m	= Slope Extrapolated Pressure Plot (Psi²/cycle Gas)	psi/cycl
OF	n = Maximum Indicated Flow Rate	MCF/D
OF	₂ = Minimum Indicated Flow Rate	.MCF/D
OF	3 = Theoretical Open Flow Potential with/Damage Removed Max	. MCF/D
OF	= Theoretical Open Flow Potential with/Damage Removed Min	. MCF/D
P,	= Extrapolated Static Pressure	. Psig.
P _F	= Final Flow Pressure	. Psig.
Р.,	, = Potentiometric Surface (Fresh Water*)	. Feet
Q	= Average Adjusted Production Rate During Test	. bbls/d
Q,	= Theoretical Production w/Damage Removed	
Q.	= Measured Gas Production Rate	.MCF/D
R	= Corrected Recovery	
r.	- t	
t	= Flow Time	
ŧ.	= Total Flow Time	Minute
T	= Temperature Rankine	
Z	= Compressibility Factor	
ע ע	20 11 A 11 A 11 A 11 A 11 A 11 A 11 A 11	
•	og = Common Log	
LC	/y — ***********************************	

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.

Each Horizontal Line Equal to 1000 p.s.i.

22 17

Navajo C

DINEH-BI-KEYAH FIELD

Operator:

Mountian States Petroleum Corporation

Bond Company:

Indian lands, evidence of bond posted with BIA

Amount:

\$325,000*

Bond No.: Letter of Credit Bond No. 315 Date approved: 5/27/94

* Pursuant to commission motion of October 31, 1997, no bond required with State of Arizona upon evidence of bond posted with the BIA.

Permits covered by this bond posted with the BIA:

<u>377</u>	<u>445</u>
384	<u>446</u>
385	<u>484</u>
386	<u>506</u>
388	<u>618</u>
389	<u>691</u>
390	<u>692</u>
396	<u>693</u>
416	<u>695</u>
417	<u>696</u>
419	<u>719</u>
421	<u>720</u> 721
422	721
431	<u>722</u>
443	$(\overline{123})$
WE	





Jane Dee Hull Governor

Arizona Geological Survey

416 W. Congress, Suite 100 Tucson, Arizona 85701 (520) 770-3500



Larry D. Fellows Director and State Geologist

December 1, 1997

Ms. Stacey Roberts
Kerr-McGee Corporation P.O. Box 25861
Oklahoma City, OK 73125

422

Re: Kerr-McGee Corporation

\$25,000 Oil Drilling Blanket Bond #2971100-2620

Safeco Insurance Company of America

Dear Ms. Roberts:

Mountain States Petroleum has provided evidence of its bonding with the BIA for the Dineh-bi-Keyah Field in Arizona, and our records show that Kerr-McGee Corporation has no outstanding drilling or plugging obligations in Arizona.

As a result, this letter constitutes written permission by the Oil and Gas Conservation Commission to terminate liability under the referenced bond. A copy of the bond is enclosed for your information.

Please advise if we may be of further service.

Sincerely,

Steven L. Rauzi

Oil & Gas Program Administrator

Stevent. Rain

Enclosure

Operator _

KERR-McGEE CORPORATION

Rica Amount \$25,000

Bond No. 2971100

Date Approved FEBRUARY 18, 1994

377	445
384	446
385	484
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388	618
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431	722
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Fife Symington Governor

Arizona Geological Survey

845 North Park Avenue, #100 Tucson, Arizona 85719 (602) 882-4795



Larry D. Fellows Director and State Geologist

June 8, 1994

Ms. Judy Burkhart Mountain States Petroleum Corporation P. O. Box 1936 Roswell, New Mexico 88201

Dear Ms. Burkhart:

This will acknowledge receipt of your letter of June 6, which included a change of operator form for each of the 31 Kerr-McGee Corporation wells at the Dineh-bi-Keyah Field sold to Mountain States Petroleum Corporation. Our records indicate that the Navajo #B-1 was plugged and abandoned by Kerr-McGee Corporation in October 1993.

Please note that our records indicate a different API number than the one you have recorded on your forms for the following wells:

<u>Well</u>	API #
Navajo 01	02-001-20001
Navajo 03X	02-001-20011
Navajo 04	02-001-20009
Navajo 10	02-001-20042
Navajo 14	02-001-20040
Navajo 15	02-001-20041

Sincerely,

Stevent. Rains

Steven L. Rauzi Oil & Gas Program Administrator UNITED STATES DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE
ROYALTY MANAGEMENT PROGRAM

CHANGE'S TO REPORTER INFORMATION

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SERVICE
ROGRAM 2

FORM MMS - RPD/PRB/INFO FORM (REVISED 4/93)

422

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P. O. BOX 1936

505 623-7184

MOUNTAIN STATES PETROLEUM CORPORATION

213 EAST FOURTH STREET ROSWELL, NEW MEXICO 88202 June 6, 1994

Arizona Geological Survey 845 North Park Avenue, #100 Tucson, Arizona, 85719 AZ GIL & GAS
CONSERVATION COMMISSION

JUN 8 1994

Attention: Steven L. Rauzi,

Oil & Gas Program Administrator

Re: Dineh-bi-Keyah Field Apache County, Arizona

Dear Sir;

In followup of our May 24, 1994, letter to you relative to the change of operator from Kerr McGee to Mountain States Petroleum Corporation for the captioned field; please find enclosed a copy of the notices sent to the Minerals Management Service.

We hope this will supply the information you requested and apologize for any inconvenience we may have caused. If you have any questions or are in need of anything further please contact the undersigned. Thank you.

Sincerely,

Judy Burkhart, Secretary

Enclosures

P. G. BOX 1936

505 623-7184

MOUNTAIN STATES PETROLEUM CORPORATION

213 EAST FOURTH STREET ROSWELL, NEW MEXICO 88202

May 24, 1994

Arizona Geological Survey 845 North Park Avenue, #100 Tucson, Arizona 85719

Attention: Steven L. Rauzi,

Oil & Gas Program Administrator

Re: Dineh-bi-Keyah Field

Apache County, Arizona

Dear Sir;

Please be advised that effective May 1, 1994, Mountain States Petroleum Corporation replaced Kerr-McGee as Operator of the captioned field and it's respective wells.

Listed on the attached sheet are the well names and API #'s of each well in this field, including shut-in, producing, and abandoned wells.

Please change your records to reflect that Mountain States Petroleum Corporation, Post Office Box 1936, Roswell, New Mexico, 88202-1936, (505) 623-7184, is now the operator of these properties and as such will be filing all required monthly production reports.

If you have any questions or are in need of anything further in this matter please contact the undersigned. Thank you.

Sincerely,

Judy Burkhart, Secretary

ridy Burkhart

Attachment

MAY 3 1 1994



Fife Symington Governor State of Arizona

Arizona Geological Survey

845 North Park Avenue, #100 Tucson, Arizona 85719 (602) 882-4795

Larry D. Fellows
Director and State Geologist

March 5, 1992

Mr. G. Bunas, Analyst II
Kerr-McGee Corporation
US Onshore Region
P. O. Box 25861
Oklahoma City, Oklahoma 73125

Re: Mechanical Integrity tests at Dineh-bi-keyah field, Arizona

Navajo 7, 9, 15, 16, 17, 24, 26, "B" 1 & 2, "C" 2, and "88" 1 & 3

Dear Mr. Bunas:

I acknowledge receipt of your sundry notices on the referenced wells. Let me take this opportunity to inform you that the Arizona Oil and Gas Conservation Commission has merged with the Arizona Geological Survey. Please note our new address and phone number in your files for future correspondence.

This office has no problem with your request to defer mechanical integrity testing on the referenced wells until late spring or early summer due to currently adverse weather conditions.

However, when you do schedule the actual dates, I hereby request at least 2 to 3 days advance notice to arrange for a representative from this office to travel to Dineh-bi-keyah to observe these tests.

Stevenh. Rang

Steven L. Rauzi

Oil and Gas Program Administrator

57525

1220-249

Operator KERR MC GEE OIL INDUSTRIES INC.

Bond Company Insurance Co. of N. America Amount 25,000

Bond No. M 41 95 25 (KM528) Date Approved 10-28-65

Permits covered by this bond:

Permits covered	by this be	onai			
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	. 36	389	418		
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<u>384</u> 914 <u>385</u> 416

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May 20, 1968

Kerr-McGee Corporation 215 Patroleum Center Building Farmington, New Mexico 87401

Attention: Mr. C.D. Williams, Production Superintendent

Re: Kerr-McGee #2-B Navajo SE NE 5-35N-30E, Apache County Permit 385

> Kerr-McGee #2-C Navajo SE NW 33-36N-30E, Apache County Permit (422)

Gentlemen:

In reply to your letter of May 16, 1968, permission is hereby granted to defer capacity testing of captioned shut-in helium wells until such time as these wells are readied for commercial production or until further notice from this Commission.

Very truly yours,

John Bannister Executive Secretary

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T wearens

KERR-MCGEE CORPORATION

215 Petroleum Center Building Farmington, New Mexico 87401

May 16, 1968

Arizona Oil and Gas Conservation Commission 1624 West Adams, Room 202 Phoenix, Arizona 85007

Attention Mr. John Bannister, Executive Secretary

In re Capacity testing of wells Dineh-Bi-Keyah Field Apache County, Arizona

Dear Mr. Bannister

Commission Rule 401 provides for a test of open flow capacity of each producing gas well at least once each year. There are two shutin helium bearing gas wells operated by Kerr-McGee in the area of the Dineh-Bi-Keyah Field, Apache County, Arizona. These are Navajo "B" Well #2 in Section 5, T35N, R30E, Permit No. 385; and Navajo "C" Well #2 in Sec. 33, T36N, R30E, Permit No. 422.

These wells have never produced since there is no pipeline connection available. Any testing of the wells would require venting to the atmosphere and waste of the helium bearing gas.

Approval is requested for deferment of testing of these two wells until further notice of the Commission.

Sincerelly yours

C. D. Williams, Production Superintendent

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STATE OF THE PARTY

KERR-MCGEE CORPORATION
KERR-MCGEE BUILDING • OKLAHOMA CITY, UKLAHOMA 73102

215 Petroleum Center Fuilling Farming ton, New Mexico August 29, 1967

COPY

United States Geological Survey Oil and Gas Division P. O. Box 959 Farmington, New Mexico

Attn: Mr. P. T. McGrath

RE: USGS Form 9-331
Navajo "C" No. 2
Apache County,
Arizona

Gentlemen:

Enclosed is USGS Form 9-331 for our Navajo "C" Well No. 2. This well is located in Sec. 33, T36N, R30E, Apache County, Arizona.

All information regarding this well-should be kept confidential.

Very truly yours, KERR-MOGEE CORPORATION

C. D. Williams
Production Supt.

CIW/hs

Enclosures

cc: Ariz.X Tribe JIF WRF RF



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KERR-MCGEE CORPORATION KERR-McGEE BUILDING . OKLAHOMA CITY, OKLAHOMA 73102

215 Petroleum Center Building Farmington, New Mexico 87401

August 11, 1967

State of Arizona Oil & Gas Conservation Commission Room 202 - 1624 West Adams Phoenix, Arizona 85007

Attention: Mr. John Bannister Executive Secretary Re: Confidential Well Information Dineh-bi-Keyah Field

Apache County, Arizona

Dear John:

Please be advised that Kerr-McGee has removed from confidential well status the following wells:

> SESW, Section 32, T36N, R30E Navajo No. 1 SENW, Section 32, T36N, R30E Navajo No. 2 SESE, Section 32, T36N, R30E Navajo No. 3X SENE, Section 32, T36N, R30E Navajo No. 4 SENE, Section 31, T36N, R30E Navajo No. 6 SESW, Section 29, T36N, R30E Navajo No. 7 SESE, Section 29, T36N, R30E Navajo No. 8 SESE, Section 30, T36N, R30E Navajo No. 9 SENW, Section 31, T36N, R30E Navajo No. 14 SESW, Section 30, T36N, R30E Navajo No. 15 SENW, Section 30, T36N, R30E Navajo No. 16 SENW, Section 33, T36N, R30E Navajo No. C-2

Kerr-McGee desires to hold in the confidential status the information on the following wells:

> SESE, Section 31, T36N, R30E Navajo No. 5 SESW. Section 31, T36N, R30E Navajo No. 13 SENW, Section 5, T35N, R30E SENE, Section 5, T35N, R30E SESE, Section 20, T36N, R30E Navajo No. B-1 Navajo No. B-2 Navajo No. E-1

> > Very truly yours,

C. D. Williams Production Superintendent

CDW:la

CC: USGS - Farmington Navajo Tribe - Farmington

KERR-MCGEE CORPORATION

215 Petroleum Center Building Farmington, New Mexico
July 28. 1967

State of Arizona O&G Conservation Commission Room 202 - 1624 W. Adams Phoenix, Arizona 85007

Attn: Mr. John Bannister

RE: Application For Permit
To Drill
Navajo "C" Well No. 2
Dineh-bi-Keyah Field
Apache Co., Arizona

Gentlemen:

Enclosed please find Arizona O&G Conservation Commission Form No. 3, Application For Permit To Drill, for our NAVAJO "C" No. 2 well. This well is located in Sec. 33, T36N, R30E, Dineh-bi-Keyah Field, Apache County, Arizona.

Also enclosed are 2 copies of the Surveyor's plat for the well location. A draft for \$25.00 to cover filing fees is enclosed. Your approval of this application is requested.

> Very truly yours, Kerr-McGee Corporation

C. D. Williams
Production Supt.

CDW/hs

Enclosures

cc: Tribe
JIF
WRF
RF
Draft Copy

RECEIVED

STATE O & G

CONS. COMM. C

JVY